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IDEALPLUSING®

Switching Power Supply Series

Product Selection Guide

IPS

GUANGZHOU IDEALPLUSING INFORMATION TECHNOLOGY CO., LTD

COMPANY PROFILE

We IDEALPLUSING are proud to be a solution provider rather than a pure manufacturer.

We have established close cooperation with many power supply manufacturers, with a special focus on Chinese manufacturers with less sales or less experience in overseas markets.

We IDEALPLUSING not only provide products, but also strive to provide customers with suitable power supply solutions and quotations, and help customers evaluate and choose the most suitable solution.

Our main markets include Eastern Europe, Southeast Asia and East Asia. We now have 47 supply chain partners, and our customer types include retailers, engineers, wholesalers, brand companies, private users and manufacturers.

FACTORY

Production Area

The production area is the core area for product manufacturing, with concentrated equipment and professional personnel. It guarantees production efficiency and product quality, which is crucial to the development of the enterprise.

Aging Area

The test aging area can accelerate product aging, discover potential quality problems in advance, improve product reliability, and ensure that product performance meets requirements.

Packaging Area

The packaging area is the final link in product production, where products are packaged to protect them and facilitate transportation and storage.

MAIN TEAM

Our Uniqueness

- ●Never stop pursuing perfection
- ●Actively respond to various challenges
- ●Dare to innovate
- ●Focus on the power supply field

OUR OVERSEAS SALES

Charis Liu

Wechat Code

Whatsapp

Kim Han

Wechat Code

Whatsapp

Victoria Liu

Wechat Code

Whatsapp

Unique customized service

We care about your needs and provide tailor-made power supply solutions to help your brand stand out from the competition.

Unique and effective power supply design

Tailor-made power supply to enhance the user experience

Customized solutions are provided according to the voltage requirements of your area

IDEALPLUSING is committed to tailoring products according to your unique needs to help you better use our power supply solutions.

Factory Tour

Feel free to visit our factory

Explore the manufacturing facilities of IDEALPLUSING suppliers and learn how we complete projects with speed, excellence and precision. Our factories are equipped with the latest production equipment and calibrated test tools to ensure high standards throughout the production process.

Learn about IDEALPLUSING Manufacturing

Numbers don't lie - here are our competitive data in the power supply industry.

180+ countries worldwide

1000+ core products

100+ employees

10,000+ Internet orders/year

Number of customers served each year is close to 10 million+

Trustworthy brand

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Switching Power Supply

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Switch Power Supply Instruction

● SELECTION OF SWITCHING POWER SUPPLY AND PRECAUTIONS FOR USE

Ⅰ. The shell of the metal shell power supply is generally connected to the ground (FG). It must be reliably grounded to ensure safety. Do not mistakenly connect the shell to the neutral line.

Ⅱ. Before the installation is completed and the power is turned on for trial operation, please check and calibrate the connections on each terminal again to make sure that the input and output terminals, AC input and DC output, voltage and current values are correct before powering on.

Ⅲ. For high-power power supplies, there are generally two or more "+" output terminals and "-" output terminals. In fact, they belong to the same output electrode. It is just to facilitate the user's wiring, and multiple terminals are connected in parallel inside to play a shunt role.

Ⅳ. In order to achieve the effect of sufficient heat dissipation, it is generally installed in a location with good air convection conditions or installed on the chassis shell to conduct heat away through the shell.

Ⅴ.Before the power supply leaves the factory, a resistive load is added for testing. If it needs to be used for capacitive or inductive loads, it should be stated in the order contract in advance.

Ⅵ. For dual-channel symmetrical loads, symmetrical output power supplies are preferred.

Ⅶ. For users whose power supply FG is not grounded, it is normal to feel a tingling sensation when touching the casing or output. When floating, FG outputs about 110V AC to the earth, which is determined by the internal structure of the power supply.

Ⅷ. Definition of AC input power :

$$\text{Input Current} = \frac{\text{Output Power}}{\text{Input voltage} * \text{power factor} * \text{efficiency}}$$

Ⅸ. Three-phase power supply neutral line configuration: For switching power supplies with a power factor sensitivity of 0.4~0.6, when multiple power supplies are configured in a balanced manner in a three-phase four-wire system, the current on the neutral line cannot be offset due to the distortion of the input current waveform. Therefore, under normal circumstances, it is recommended to set the specification of the neutral line to 1.5~2 times that of the phase line. It is best to configure it in the form of actual current measurement.

Ⅹ. Leakage current: When multiple power supplies are in use, they are connected to a grounding point together. The total leakage current is composed of the sum of the leakage currents of each unit. At that time, it is necessary to check whether the reliability of the protective grounding wire and the grounding resistance can meet the requirements to avoid electric shock.

A

● PARTIAL PARAMETER DESCRIPTION

Ⅰ.Input voltage: Under normal circumstances, AC input power can also be used for DC input. When the AC input voltage range is 85~264VA, the DC input voltage range is 120~370VDC; when the AC input voltage range is 170~264VAC, the DC input voltage range is 210~370VDC, or according to the switch selection input range 85~132VAC/170~264VAC.

Ⅱ. Input impact: refers to the maximum instantaneous input current when the power supply is cold started.

Ⅲ. Multi-channel output :

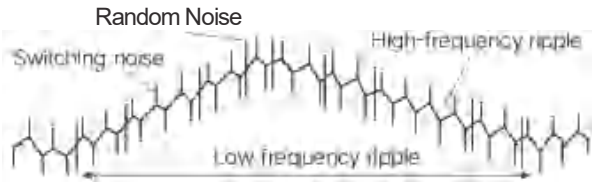
- The current listed in the multi-channel output power supply is the maximum current of each output, and the total value of each output does

not exceed the rated power range of the series power supply. Under normal circumstances, the V1 of the multi-channel output power supply. Output is independent of the other outputs. For common ground products, just connect the corresponding terminals of V1 +/- poles with the other terminals of the other channels.

● For the load regulation test of multiple outputs, the load of the output to be tested is changed from 20% to 100% of the rated value, and the loads of other outputs are kept at 60% of the rated value.

Ⅳ. Output power: If the output voltage is increased, the output current will be reduced accordingly to keep the total power unchanged. If the output voltage is reduced, the output current should not exceed the standard rated value.

Ⅴ. Output ripple and noise: As shown in Figure 1, the ripple and noise of a switching power supply generally refers to the voltage value between the positive and negative peaks formed by the total ripple voltage, which consists of four parts.



● Low-frequency ripple: The frequency is twice the input AC power frequency (no such item for DC input).

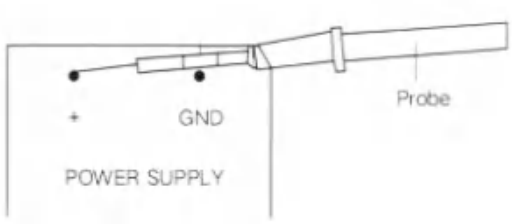
● High-frequency ripple: The frequency is the same as the internal pulse modulation (PWM) frequency of the switching power supply.

● Switching noise: The same as the frequency of the switching pulse.

● Random noise: It has nothing to do with the AC input voltage and the switching frequency.

Ⅵ. How to test the output ripple and noise of the power supply:

As shown in Figure 2, the best method to test the output ripple and noise of the power supply is to minimize the impact of the radiated noise. The Band width of the oscilloscope used in Figure 2 is 0~20MHz. The ground Wire ring of the oscilloscope probe directly contacts the negative output terminal of the power supply, and the probe contacts the positive output terminal.



Ⅶ. Working principle:

It refers to the ambient temperature of the power supply when it is working normally. If the power supply is installed in the chassis of the equipment, the operating temperature refers to the internal temperature of the chassis, not the indoor or outdoor temperature. Therefore, if the operating temperature of the power supply exceeds the rated standard, it is recommended that the user use it at a 2%/℃ reduction in the rated power value or take air cooling measures to make the operating temperature lower than the rated high operating temperature.

● Model Description

Output DC voltage value
Derivative code
Output power(W)
Output voltage groups
(Single group Double group
Three-group Four-group)

● Features

(1)Light volume and weight and easy to install;

(2)Pressure resistance and high efficiency;

(3)Multi-protection such as over-flow,over-voltage and short-circuit protection;

(4)Various output voltage of circuit from 1 to 4 at the same time.

(5)Input AC power is suitable for global use.

(6)High property price.

(7)High quality the same to that of the products of Europe and America

IPS-LRS ULTRA-THIN-35W SINGLE GROUP

Single output: 35W power

Input Voltage: 85-264VAC

Size:99*82*30mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index			
Model	IPS-LRS-35-5	IPS-LRS-35-12	IPS-LRS-35-24	IPS-LRS-35-48
DC Voltage & Rated Current	5V/7A	12V/3A	24V/1.5A	48V/0.8A
Ripple &Noise(Max)	100mVp-p	120mVp-p	150mVp-p	200mVp-p
Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%
Load Regulation	±1%	±0.5%	±0.5%	±0.5%
Efficiency	81%	85%	88%	89%
Voltage Adj.range	±10%	±10%	±10%	±10%
Input Voltage Range	85-264VAC 120-370VDC			
Inrush Current	42A/230VAC Cold-Start Current			
Overload Protection	110%-150%rated output power, Protection type:Hiccup mode,recovers automatically after fault condition is removed			
Overvoltage Protection	5.75-6.9V	13.8-16.2V	28.8-33.6V	55.2-64.8V
	Protection type: Shutdown o/p voltage, recovers automatically after fault condition is removed			
Start,Rise Time	1500ms 30ms/230VAC 2000ms 30ms/115VAC			
Withstand Voltage	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG: 0.5KVAC 1minute			
Isolation Resistance	RHI/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC/25℃/70%RH			
Working Temp,Humidity	-10℃~+60℃,20%~90%RH			
Safety Standard	Compliance to GB4943			
EMC Standard	Compliance to EN55032 class A			
Weight	0.18Kg			

● OVERALL DIMENSION(MM)

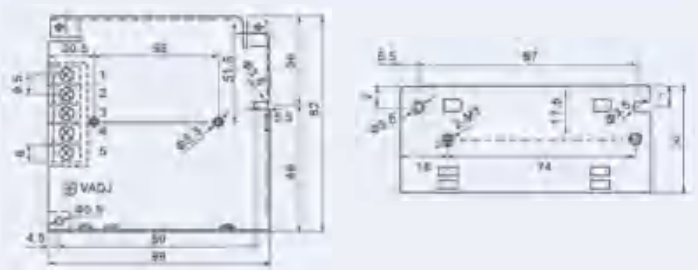
Terminal pin no.Assignment

Pin1: DC output +V

Pin2: DC output -V

Pin3: FG

Pin4.5: AC input



IPS-LRS ULTRA-THIN-50W SINGLE GROUP

Single output: 50W power

Input Voltage: 85-264VAC

Size:99*82*30mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index			
Model	IPS-LRS-50-5	IPS-LRS-50-12	IPS-LRS-50-24	IPS-LRS-50-48
DC Voltage/Rated Current	5V/10A	12V/4.2A	24V/2.2A	48V/1.1A
Ripple &Noise(Max)	100mVp-p	120mVp-p	150mVp-p	200mVp-p
Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%
Load Regulation	±1%	±0.5%	±0.5%	±0.5%
Efficiency	81%	85%	88%	89%
Voltage Adj.range	±10%	±10%	±10%	±10%
Input Voltage Range	85-264VAC 120-370VDC			
Inrush Current	42A/230VAC Cold-Start Current			
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed			
Over-voltage Protection	5.75-6.9V	13.8-16.2V	28.8-33.6V	55.2-64.8V
	Protection type:Shutdown o/p voltage,recovers automatically after fault condition is removed			
Start,Rise Time	1500ms 30ms/230VAC 2000ms 30ms/115VAC			
Withstand Voltage	I/P-O/P:1.5KVAC /P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute			
Isolation Resistance	RHI/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH			
Working Temp,Humidity	-10℃~+60℃,20%~90%RH			
Safety Standard	Compliance to GB4943			
EMC Standard	Compliance to EN55032 class A			
Weight	0.22Kg			

● OVERALL DIMENSION(MM)

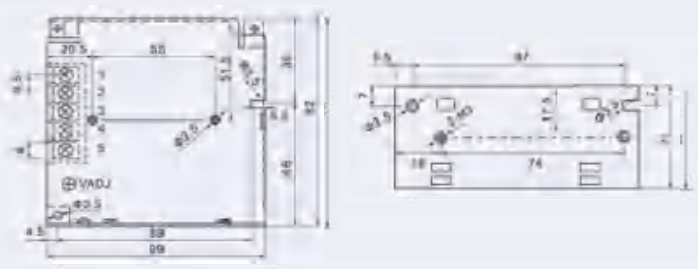
Terminal pin no.Assignment

Pin1: DC output+V

Pin2: DC output-V

Pin3: GND

Pin4.5: AC input



IPS-LRS ULTRA-THIN-75W SINGLE GROUP

Single output: 75W power

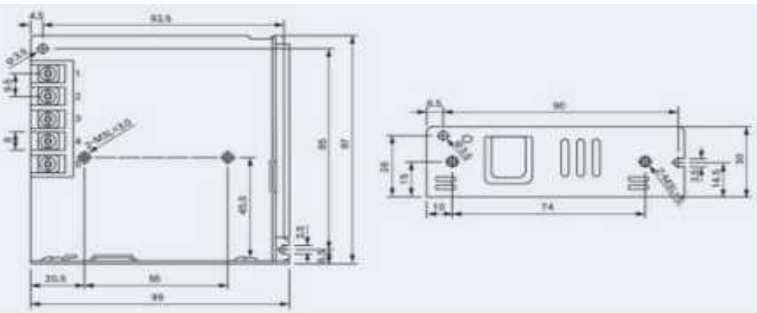
Input Voltage: 85-264VAC

Size:99*97*30mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index			
Model	IPS-LRS-75-5	IPS-LRS-75-12	IPS-LRS-75-24	IPS-LRS-75-48
DC Voltage/Rated Current	5V/14A	12V/6A	24V/3.2A	48V/1.6A
Ripple &Noise(Max)	100mVp-p	120mVp-p	150mVp-p	200mVp-p
Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%
Load Regulation	±1%	±0.5%	±0.5%	±0.5%
Efficiency	86.5%	89%	90%	91.5%
Voltage Adj.range	±10%	±10%	±10%	±10%
Input Voltage Range	85-264VAC 120-370VDC			
Inrush Current	42A/230VAC Cold-Start Current			
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed			
Over-voltage Protection	5.75-6.9V	13.8-16.2V	28.8-33.6V	55.2-64.8V
	Protection type:Shutdown o/p voltage,recovers automatically after fault condition is removed			
Start,Rise Time	1500ms 30ms/230VAC 2000ms 30ms/115VAC			
Withstand Voltage	I/P-O/P:1.5KVAC /P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute			
Isolation Resistance	RHI/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH			
Working Temp,Humidity	-10℃~+60℃,20%~90%RH			
Safety Standard	Compliance to GB4943			
EMC Standard	Compliance to EN55032 class A			
Weight	0.22Kg			

● OVERALL DIMENSION(MM)



IPS-LRS ULTRA-THIN-100W SINGLE GROUP

Single output: 100W power

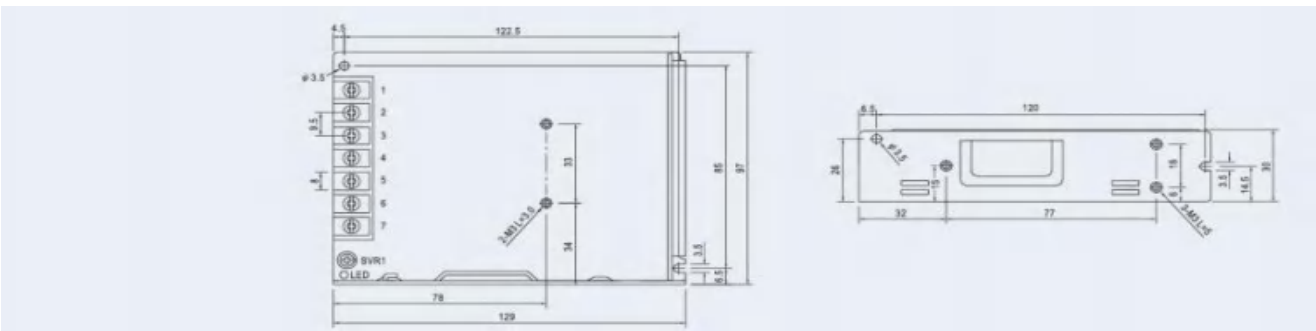
Input Voltage: 85-264VAC

Size:129*97*30mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index			
Model	IPS-LRS-100-5	IPS-LRS-100-12	IPS-LRS-100-24	IPS-LRS-100-48
DC Voltage/Rated Current	5V/18A	12V/8.5A	24V/4.5A	48V/2.3A
Ripple &Noise(Max)	100mVp-p	120mVp-p	150mVp-p	200mVp-p
Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%
Load Regulation	±1%	±0.5%	±0.5%	±0.5%
Efficiency	86.5%	89%	90%	91.5%
Voltage Adj.range	±10%	±10%	±10%	±10%
Input Voltage Range	85-264VAC 120-370VDC			
Inrush Current	42A/230VAC Cold-Start Current			
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed			
Overvoltage Protection	115%-145%			
	Protection type:Shutdown o/p voltage,recovers automatically after fault condition is removed			
Start,Rise Time	1500ms 30ms/230VAC 2000ms 30ms/115VAC			
Withstand Voltage	I/P-O/P:1.5KVAC /P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute			
Isolation Resistance	RHI/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH			
Working Temp,Humidity	-10℃~+60℃,20%~90%RH			
Safety Standard	Compliance to GB4943			
EMC Standard	Compliance to EN55032 class A			
Weight	0.34Kg			

● OVERALL DIMENSION(MM)



IPS-LRS ULTRA-THIN-120W SINGLE GROUP

Single output: 120W power

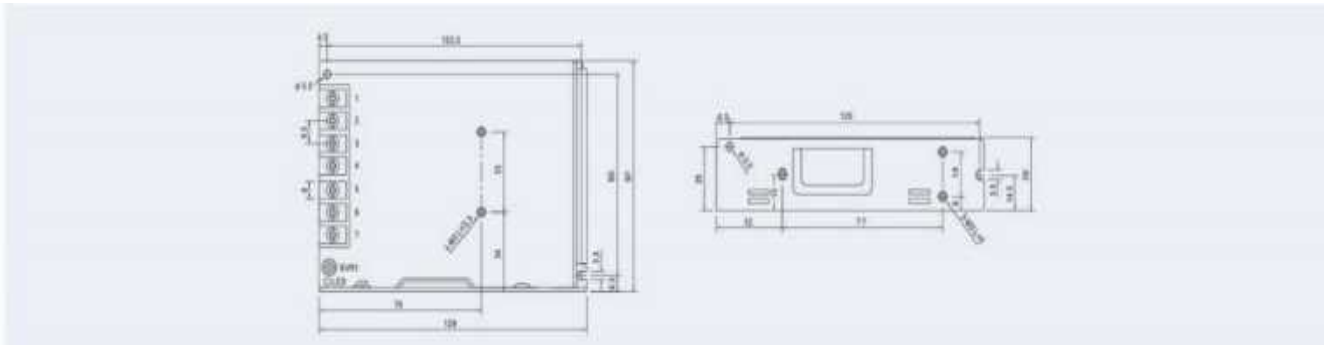
Input Voltage: 85-264VAC
50/60HZ

Size:129*97*30mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index			
Model	LRS-120-5	LRS-120-12	LRS-120-24	LRS-120-48
DC Voltage/Rated Current	5V/20A	12V/10A	24V/5A	48V/2.5A
Ripple &Noise(Max)	100mVp-p	120mVp-p	150mVp-p	200mVp-p
Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%
Load Regulation	±1%	±0.5%	±0.5%	±0.5%
Efficiency	85%	88%	90%	91.5%
Voltage Adj.range	±10%	±10%	±10%	±10%
Input Voltage Range	85-264VAC 120-370VDC			
Inrush Current	42A/230VAC Cold-Start Current			
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed			
Overvoltage Protection	115%-145%			
	Protection type:Shutdown o/p voltage,recovers automatically after fault condition is removed			
Start,Rise Time	1500ms 30ms/230VAC 2000ms 30ms/115VAC			
Withstand Voltage	I/P-O/P:1.5KVAC /P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute			
Isolation Resistance	RHI/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH			
Working Temp,Humidity	-10℃~+60℃,20%~90%RH			
Safety Standard	Compliance to GB4943			
EMC Standard	Compliance to EN55032 class A			
Weight	0.34Kg			

● OVERALL DIMENSION(MM)



IPS-LRS ULTRA-THIN-150W SINGLE GROUP

Single output: 150W power

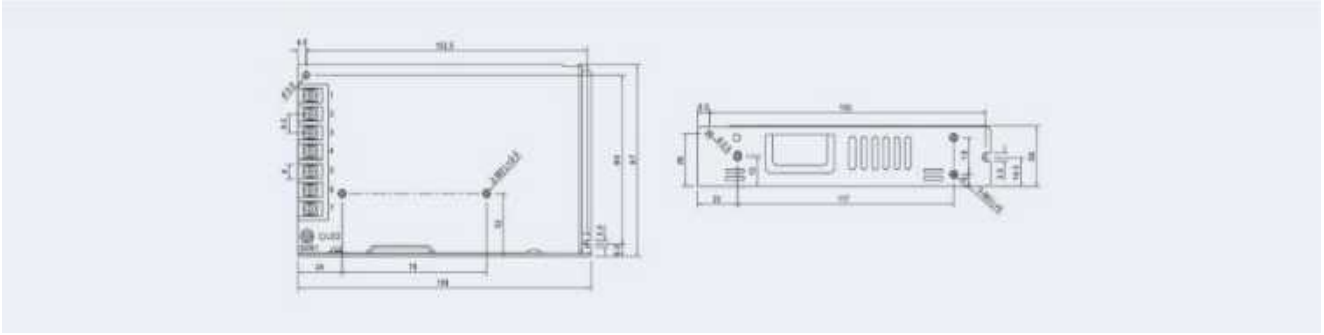
Input Voltage: 85-264VAC

Size:129*97*30mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index			
Model	IPS-LRS-150-12	IPS-LRS-150-24	IPS-LRS-150-36	IPS-LRS-150-48
DC Voltage/Rated Current	12V/12.5A	24V/6.5A	36V/4.3A	48V/3.3A
Ripple &Noise(Max)	150mVp-p	200mVp-p	200mVp-p	200mVp-p
Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%
Load Regulation	±1%	±0.5%	±0.5%	±0.5%
Efficiency	86%	88%	90%	91%
Voltage Adj.range	±10%	±10%	±10%	±10%
Input Voltage Range	85-264VAC 120-370VDC			
Inrush Current	42A/230VAC Cold-Start Current			
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed			
Over-voltage Protection	115%-145%			
	Protection type:Shutdown o/p voltage,recovers automatically after fault condition is removed			
Start,Rise Time	1500ms 30ms/230VAC 2000ms 30ms/115VAC			
Withstand Voltage	I/P-O/P:1.5KVAC /P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute			
Isolation Resistance	RHI/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH			
Working Temp,Humidity	-10℃~+60℃,20%~90%RH			
Safety Standard	Compliance to GB4943			
EMC Standard	Compliance to EN55032 class A			
Weight	0.48Kg			

● OVERALL DIMENSION(MM)



IPS-LRS ULTRA-THIN-200W SINGLE GROUP

Single output: 200W power

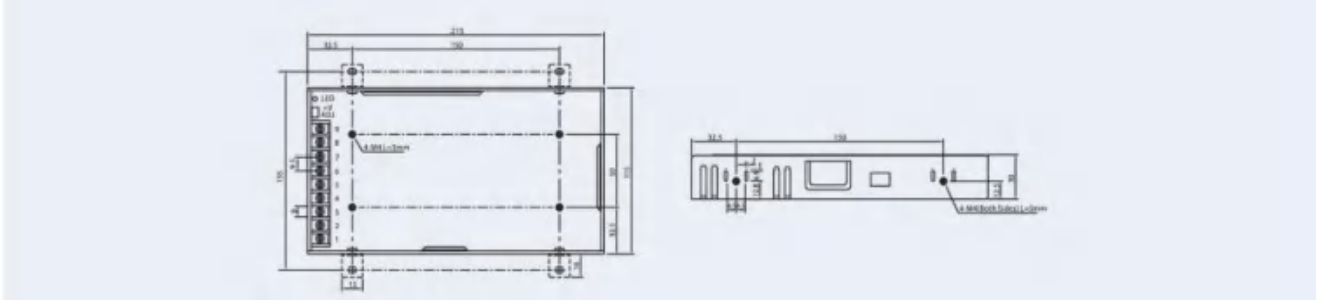
Input Voltage: 110VAC-220VAC±20% switch choose

Size:215*115*30mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index			
Model	IPS-LRS-200-12	IPS-LRS-200-24	IPS-LRS-200-36	IPS-LRS-200-48
DC Voltage/Rated Current	12V/17A	24V/8.8A	36V/5.9A	48V/4.4A
Ripple &Noise(Max)	150mVp-p	150mVp-p	150mVp-p	150mVp-p
Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%
Load Regulation	±1%	±0.5%	±0.5%	±0.5%
Efficiency	87%	88%	90%	91%
Voltage Adj.range	±10%	±10%	±10%	±10%
Input Voltage Range	90-132VAC/180-264VAC (selected by switch); 240-270VAC (switch on 230VAC)			
Inrush Current	60A/230VAC Cold-Start Current			
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed			
Over-voltage Protection	115%-145%			
	Protection type:Shutdown o/p voltage,recovers automatically after fault condition is removed			
Start,Rise Time	2000ms 30ms/230VAC 2000ms 30ms/115VAC			
Withstand Voltage	I/P-O/P:1.5KVAC /P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute			
Isolation Resistance	RHI/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH			
Working Temp,Humidity	-10℃~+60℃,20%~90%RH			
Safety Standard	Compliance to GB4943			
EMC Standard	Compliance to EN55032 class A			
Weight	0.55Kg			

● OVERALL DIMENSION(MM)



IPS-LRS ULTRA-THIN-350W SINGLE GROUP

Single output: 350W power

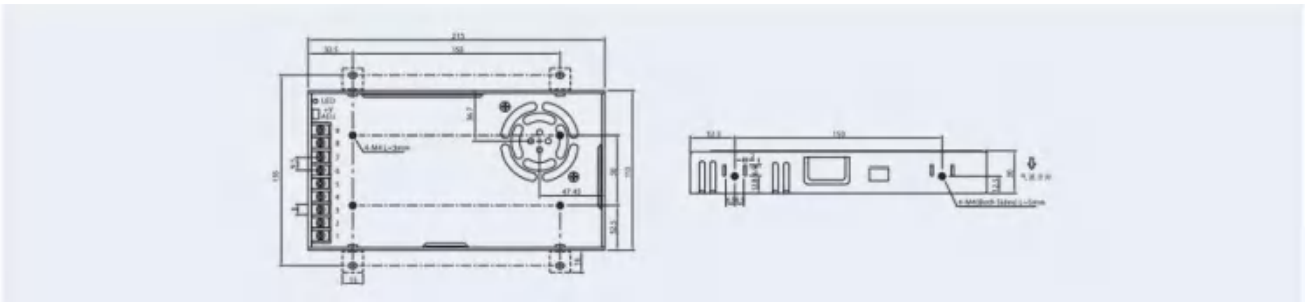
Input Voltage: 110VAC-220VAC±20% switch choose

Size:215*115*30mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index			
Model	IPS-LRS-350-12	IPS-LRS-350-24	IPS-LRS-350-36	IPS-LRS-350-48
DC Voltage/Rated Current	12V/29A	24V/14.6A	36V/9.7A	48V/7.3A
Ripple &Noise(Max)	150mVp-p	200mVp-p	200mVp-p	200mVp-p
Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%
Load Regulation	±1%	±0.5%	±0.5%	±0.5%
Efficiency	87%	88%	90%	91%
Voltage Adj.range	±10%	±10%	±10%	±10%
Input Voltage Range	90-132VAC/180-264VAC (selected by switch); 240-270VAC (switch on 230VAC)			
Inrush Current	60A/230VAC Cold-Start Current			
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed			
Over-voltage Protection	115%-145%			
	Protection type:Shutdown o/p voltage,recovers automatically after fault condition is removed			
Start,Rise Time	2000ms 30ms/230VAC 2000ms 30ms/115VAC			
Withstand Voltage	I/P-O/P:1.5KVAC /P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute			
Isolation Resistance	RHI/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH			
Working Temp,Humidity	-10℃~+60℃,20%~90%RH			
Safety Standard	Compliance to GB4943			
EMC Standard	Compliance to EN55032 class A			
Weight	0.76Kg			

● OVERALL DIMENSION(MM)



IPS-LRS ULTRA-THIN-400W SINGLE GROUP

Single output: 400W power

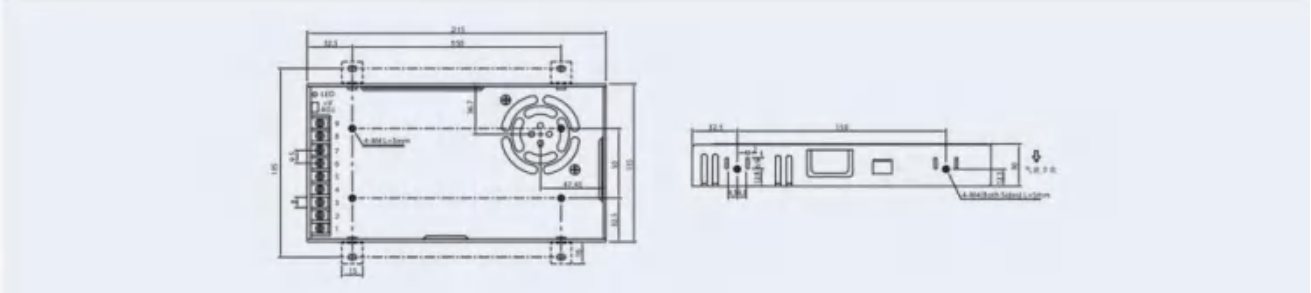
Input Voltage: 110VAC-220VAC±20% switch choose

Size:215*115*30mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index			
Model	IPS-LRS-400-12	IPS-LRS-400-24	IPS-LRS-400-36	IPS-LRS-400-48
DC Voltage/Rated Current	12V/33A	24V/16.7A	36V/11A	48V/8.5A
Ripple &Noise(Max)	150mVp-p	200mVp-p	200mVp-p	200mVp-p
Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%
Load Regulation	±1%	±0.5%	±0.5%	±0.5%
Efficiency	87%	88%	90%	91%
Voltage Adj.range	±10%	±10%	±10%	±10%
Input Voltage Range	90-132VAC/180-264VAC (selected by switch); 240-270VAC (switch on 230VAC)			
Inrush Current	60A/230VAC Cold-Start Current			
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed			
Over-voltage Protection	115%-145%			
	Protection type:Shutdown o/p voltage,recovers automatically after fault condition is removed			
Start,Rise Time	2000ms 30ms/230VAC 2000ms 30ms/115VAC			
Withstand Voltage	I/P-O/P:1.5KVAC /P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute			
Isolation Resistance	RHI/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH			
Working Temp,Humidity	-10℃~+60℃,20%~90%RH			
Safety Standard	Compliance to GB4943			
EMC Standard	Compliance to EN55032 class A			
Weight	0.78Kg			

● OVERALL DIMENSION(MM)



IPS-LRS ULTRA-THIN-450W SINGLE GROUP

Single output: 450W power

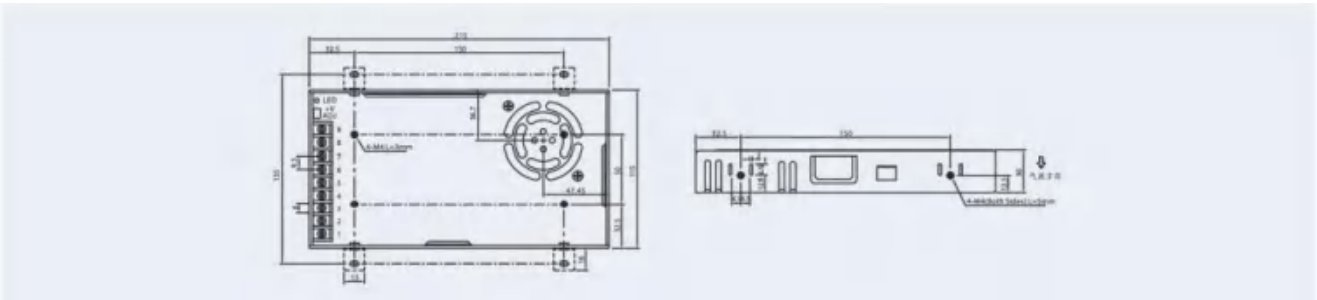
Input Voltage: 110VAC-220VAC±20% switch choose

Size:215*115*30mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index			
Model	IPS-LRS-450-12	IPS-LRS-450-24	IPS-LRS-450-36	IPS-LRS-450-48
DC Voltage/Rated Current	12V/37.5A	24V/18.8A	36V/12.5A	48V/9.4A
Ripple &Noise(Max)	150mVp-p	200mVp-p	200mVp-p	200mVp-p
Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%
Load Regulation	±1%	±0.5%	±0.5%	±0.5%
Efficiency	87%	88%	90%	91%
Voltage Adj.range	±10%	±10%	±10%	±10%
Input Voltage Range	90-132VAC/180-264VAC (selected by switch); 240-270VAC (switch on 230VAC)			
Inrush Current	60A/230VAC Cold-Start Current			
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed			
Over-voltage Protection	115%-145%			
	Protection type:Shutdown o/p voltage,recovers automatically after fault condition is removed			
Start,Rise Time	2000ms 30ms/230VAC 2000ms 30ms/115VAC			
Withstand Voltage	I/P-O/P:1.5KVAC /P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute			
Isolation Resistance	RHI/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH			
Working Temp,Humidity	-10℃~+60℃,20%~90%RH			
Safety Standard	Compliance to GB4943			
EMC Standard	Compliance to EN55032 class A			
Weight	0.85Kg			

● OVERALL DIMENSION(MM)



IPS-LRS-500W SINGLE GROUP OUTPUT SWITCHING POWER SUPPLY

Voltage input range:90-132/180-264VAC/254-370VDC

Protection type:short circuit/overvoltage/overcurrent/overtemperature
Inteligent temperature control fan,lasting life

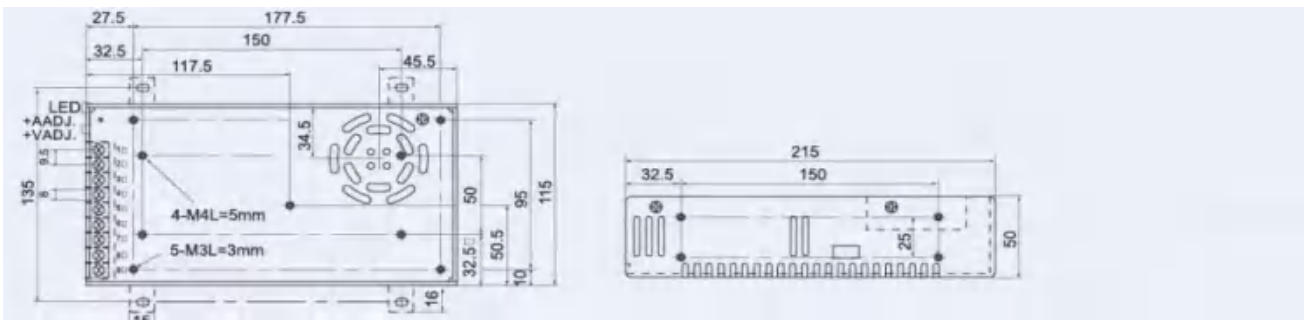
Burn in test at 100%full load
Strong load adaptabiity,suitable for power supply of various equipment

Size:215*115*30mm(L*W*H)

●TECHNICAL PARAMETER

Technical Performance	Technical Index				
Model	IPS-LSR-500-12	IPS-LSR-500-15	IPS-LSR-500-24	IPS-LSR-500-36	IPS-LSR-500-48
DC Voltage/Rated Current	12V/37.5A	15V/30A	36V/20.8A	36V/13.8A	48V/13.8A
Ripple &Noise(Max)	100mVp-p	150mVp-p	200mVp-p	250mVp-p	300mVp-p
Line Regulation	+1%	+1%	+0.5%	+0.5%	+0.5%
Load Regulation	+1%	+0.5%	+0.5%	+0.5%	+0.5%
Efficiency	85%	86%	87%	88%	88%
Voltage Adj.range	0-12V	0.15V	0-24	0-36V	0-48V
Input Voltage Range	90-132-180-264VAC/254-370VDC				
Inrush Current	42A/230VAC Cold-Start Current				
Overload Protection	105%-130%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed				
Over-voltage Protection	14-17V	18-22V	28-33V	41-47V	55-65V
	Protection type:Shutdown o/p voltage,recovers automatically after fault condition is removed				
Start,Rise Time	1500ms 30ms/230VAC 2000ms 30ms/115VAC				
Withstand Voltage	I/P:800VAC /I/G:800VAC O/G:500KVAC				
Isolation Resistance	I/O I/G O/G:100M Ohms/500VDC/25℃/70%RH				
Working Temp,Humidity	-25℃~+70℃, 20%~90%RH				
Safety Standard	Compliance to GB4943				
EMC Standard	Compliance to EN55032 class A				
Weight	0.85Kg				

● OVERALL DIMENSION(MM)



IPS-LRS-600W SINGLE GROUP OUTPUT SWITCHING POWER SUPPLY

Voltage input range:90-132/180-264VAC/254-370VDC

Protection type:short circuit/overvoltage/overcurrent/overtemperature
Inteligent temperature control fan,lasting life

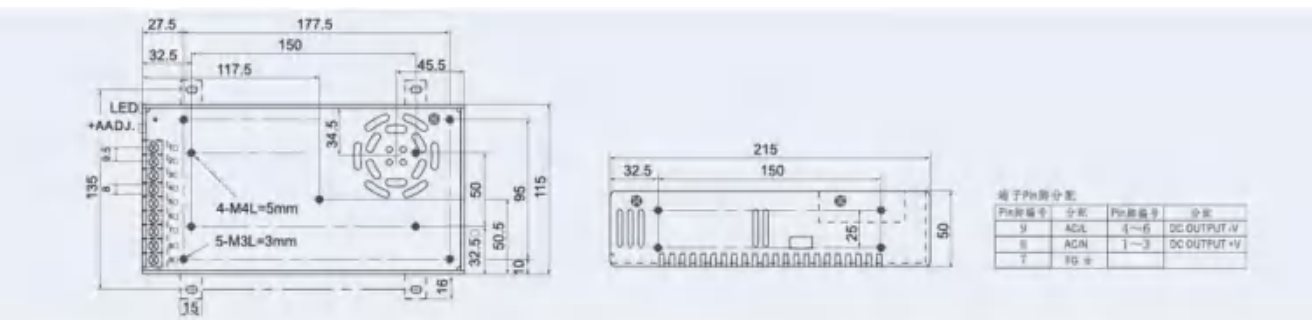
Burn in test at 100%full load
Strong load adaptabiity,suitable for power supply of various equipment

Size:215*115*50mm(L*W*H)

●TECHNICAL PARAMETER

Technical Performance	Technical Index					
Model	IPS-LSR-600-5	IPS-LSR-600-12	IPS-LSR-600-15	IPS-LSR-600-24	IPS-LSR-600-36	IPS-LSR-600-36
DC Voltage/Rated Current	5V/60A	12V/40A	15V/36.6A	24V/25A	36V/16.5A	48V/12.5A
Ripple &Noise(Max)	100mVp-p	100mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p
Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Load Regulation	±2%	±1%	±0.5%	±0.5%	±0.5%	±0.5%
Efficiency	82%	85%	86%	88%	90%	90.5%
Voltage Adj.range	4.5-5.5V	10.2-13.8V	13.5-18V	21.6-28.8V	32.4-39.6V	43.2-52.8V
Input Voltage Range	90-132-180-264VAC/254-370VDC					
Inrush Current	42A/230VAC Cold-Start Current					
Overload Protection	105%-130%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed					
Over-voltage Protection	5.7-6.8V	14-17V	18-22V	28-33V	41-47V	55-65V
	Protection type:Shutdown o/p voltage,recovers automatically after fault condition is removed					
Start,Rise Time	1000ms 30ms/230VAC 2000ms 30ms/115VAC					
Withstand Voltage	I/P:1.5KVAC /I/G:1.5KVAC O/G:500KVAC					
Isolation Resistance	I/O I/G O/G:100M Ohms/500VDC/25℃/70%RH					
Working Temp,Humidity	-25℃~+70℃, 20%~90%RH					
Safety Standard	Compliance to GB4943					
EMC Standard	Compliance to EN55032 class A					
Weight	0.85Kg					

● OVERALL DIMENSION(MM)



IPS-SP-SERIES-15W SINGLE GROUP

Single output: 15W power

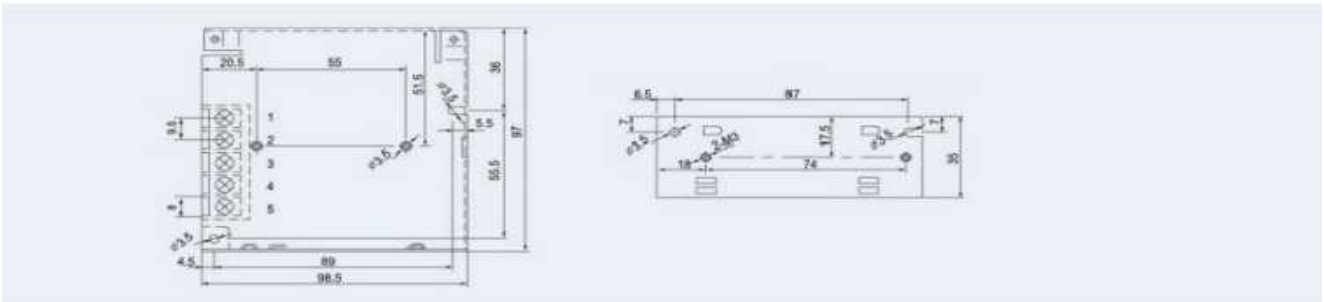
Input Voltage: 85-264VAC±20% switch choose

Size:99*97*35mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index			
Model	IPS-SPS-15-5	IPS-SPS-15-12	IPS-SPS-15-15	IPS-SPS-15-24
DC Voltage/Rated Current	5V/3A	12V/1.3A	15V/1A	24V/0.7A
Ripple &Noise(Max)	50mVp-p	50mVp-p	50mVp-p	75mVp-p
Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%
Load Regulation	±1%	±0.5%	±0.5%	±0.5%
Efficiency	76%	78%	79%	81%
Voltage Adj.range	±10%	±10%	±10%	±10%
Input Voltage Range	85-264VAC 120-370VDC			
Inrush Current	42A/230VAC Cold-Start Current			
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed			
Over-voltage Protection	115%-145%			
	Protection type:Shutdown o/p voltage,recovers automatically after fault condition is removed			
Start,Rise Time	1000ms 30ms/230VAC 2000ms 30ms/115VAC			
Withstand Voltage	I/P-O/P:1.5KVAC /P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute			
Isolation Resistance	RHI/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH			
Working Temp,Humidity	-10℃~+60℃,20%~90%RH			
Safety Standard	Compliance to GB4943			
EMC Standard	Compliance to EN55032 class A			
Weight	0.3Kg			

● OVERALL DIMENSION(MM)



IPS-SPS-SERIES-25W SINGLE GROUP

Single output: 25W power

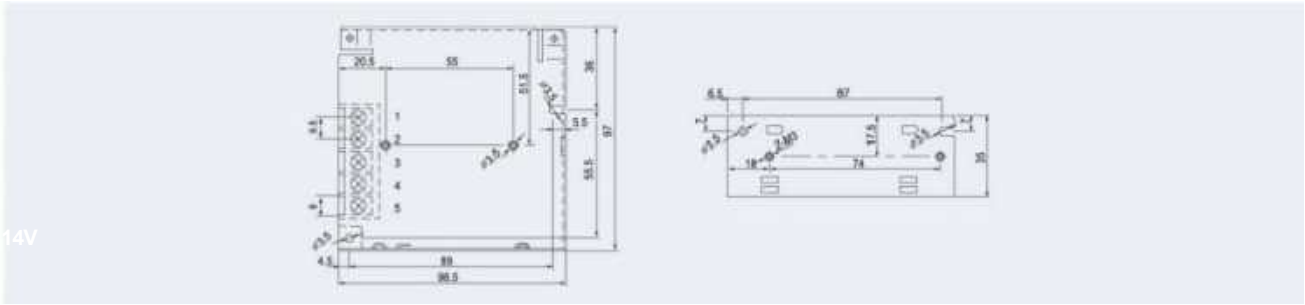
Input Voltage: 85-264VAC±20% switch choose

Size:99*97*35mm(L*W*H)

•TECHNICAL PARAMETERS

Technical Performance	Technical Index			
Model	IPS-SPS-25-5	IPS-SPS-25-12	IPS-SPS-25-15	IPS-SPS-25-24
DC Voltage/Rated Current	5V/5A	12V/2.1A	15V/1.7A	24V/1.1A
Ripple &Noise(Max)	50mVp-p	50mVp-p	50mVp-p	75mVp-p
Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%
Load Regulation	±1%	±0.5%	±0.5%	±0.5%
Efficiency	76%	78%	79%	81%
Voltage Adj.range	±10%	±10%	±10%	±10%
Input Voltage Range	85-264VAC 120-370VDC			
Inrush Current	42A/230VAC Cold-Start Current			
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed			
Over-voltage Protection	115%-145%			
	Protection type:Shutdown o/p voltage,recovers automatically after fault condition is removed			
Start,Rise Time	1000ms 30ms/230VAC 2000ms 30ms/115VAC			
Withstand Voltage	I/P-O/P:1.5KVAC /P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute			
Isolation Resistance	RHI/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH			
Working Temp,Humidity	-10℃~+60℃,20%~90%RH			
Safety Standard	Compliance to GB4943			
EMC Standard	Compliance to EN55032 class A			
Weight	0.3Kg			

• OVERALL DIMENSION(MM)



IPS-SPS-SERIES-35W SINGLE GROUP

Single output: 35W power

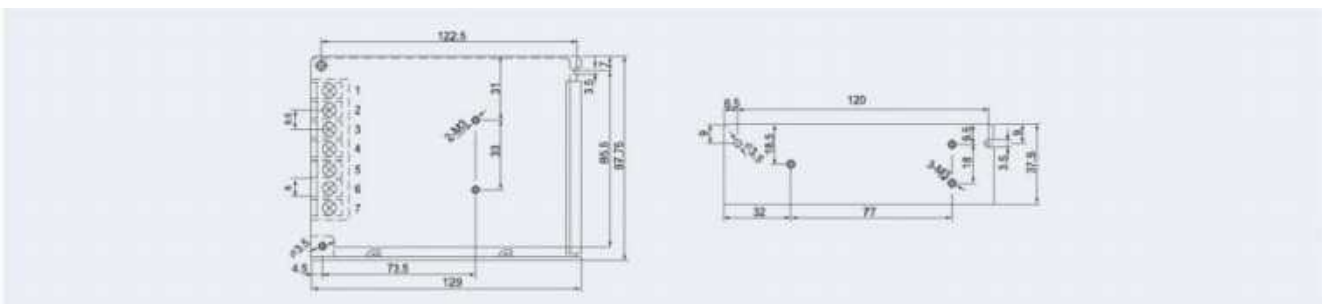
Input Voltage: 85-264VAC±20% switch choose

Size:129*98*38mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index			
Model	IPS-SPS-35-5	IPS-SPS-35-12	IPS-SPS-35-15	IPS-SPS-35-24
DC Voltage/Rated Current	5V/7A	12V/3A	15V/2.4A	24V/1.5A
Ripple &Noise(Max)	50mVp-p	50mVp-p	50mVp-p	75mVp-p
Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%
Load Regulation	±1%	±0.5%	±0.5%	±0.5%
Efficiency	76%	78%	79%	81%
Voltage Adj.range	±10%	±10%	±10%	±10%
Input Voltage Range	85-264VAC 120-370VDC			
Inrush Current	42A/230VAC Cold-Start Current			
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed			
Over-voltage Protection	115%-145%			
	Protection type:Shutdown o/p voltage,recovers automatically after fault condition is removed			
Start,Rise Time	1000ms 30ms/230VAC 2000ms 30ms/115VAC			
Withstand Voltage	I/P-O/P:1.5KVAC /P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute			
Isolation Resistance	RHI/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH			
Working Temp,Humidity	-10℃~+60℃,20%~90%RH			
Safety Standard	Compliance to GB4943			
EMC Standard	Compliance to EN55032 class A			
Weight	0.4Kg			

● OVERALL DIMENSION(MM)



IPS-SPS-SERIES-50W SINGLE GROUP

Single output: 50W power

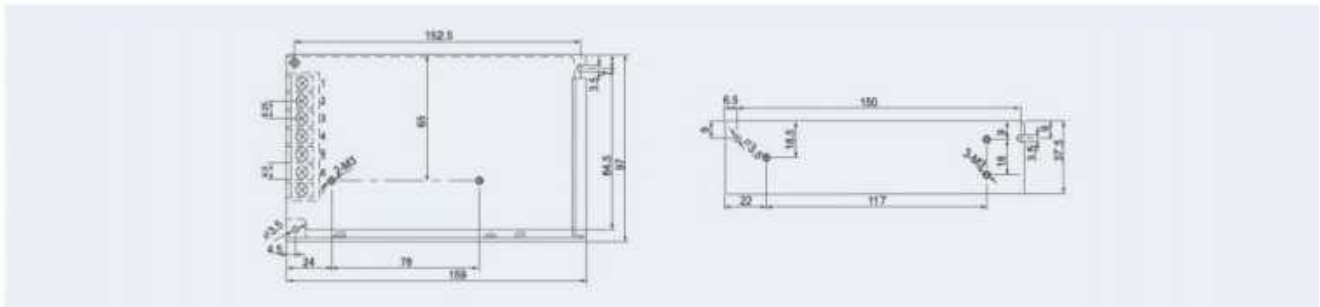
Input Voltage: 85-264VAC±20% switch choose

Size:159*98*38mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index			
Model	IPS-SPS-50-5	IPS-SPS-50-12	IPS-SPS-50-15	IPS-SPS-50-24
DC Voltage/Rated Current	5V/10A	12V/4.2A	15V/3.3A	24V/2.2A
Ripple &Noise(Max)	50mVp-p	50mVp-p	50mVp-p	75mVp-p
Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%
Load Regulation	±1%	±0.5%	±0.5%	±0.5%
Efficiency	76%	79%	79%	82%
Voltage Adj.range	±10%	±10%	±10%	±10%
Input Voltage Range	90-132VAC/180-264VAC selected by switch 240-370VDC switch on 230VAC			
Inrush Current	42A/230VAC Cold-Start Current			
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed			
Over-voltage Protection	115%-145%			
	Protection type:Shutdown o/p voltage,recovers automatically after fault condition is removed			
Start,Rise Time	1000ms 30ms/230VAC 2000ms 30ms/115VAC			
Withstand Voltage	I/P-O/P:1.5KVAC /P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute			
Isolation Resistance	RHI/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH			
Working Temp,Humidity	-10℃~+60℃,20%~90%RH			
Safety Standard	Compliance to GB4943			
EMC Standard	Compliance to EN55032 class A			
Weight	0.48Kg			

● OVERALL DIMENSION(MM)



IPS-SPS-SERIES-60W SINGLE GROUP

Single output: 60W power

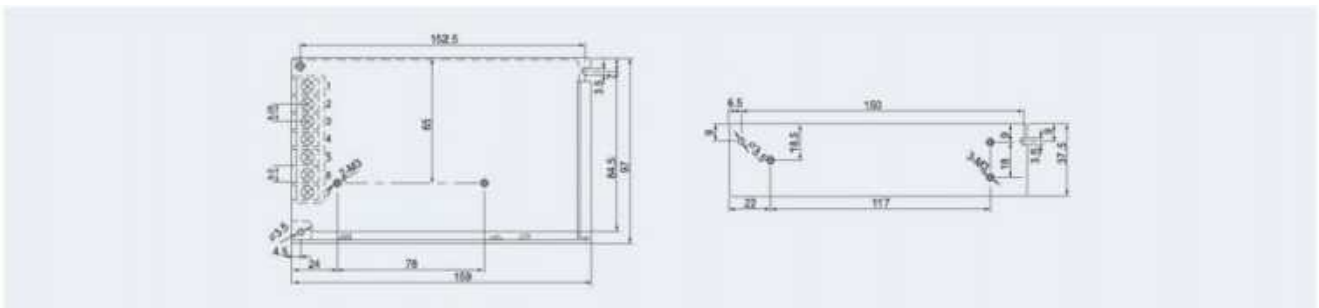
Input Voltage: 110-220VAC±20% switch choose

Size:159*98*38mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index		
Model	IPS-SPS-60-12	IPS-SPS-60-15	IPS-SPS-60-24
DC Voltage/Rated Current	12V/5A	15V/4A	24V/2.5A
Ripple &Noise(Max)	50mVp-p	50mVp-p	100mVp-p
Line Regulation	±0.5%	±0.5%	±0.5%
Load Regulation	±0.5%	±0.5%	±0.5%
Efficiency	78%	79%	81%
Voltage Adj.range	±10%	±10%	±10%
Input Voltage Range	90-132VAC/180-264VAC selected by switch 240-370VDC switch on 230VAC		
Inrush Current	42A/230VAC Cold-Start Current		
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed		
Over-voltage Protection	115%-145%		
	Protection type:Shutdown o/p voltage,recovers automatically after fault condition is removed		
Start,Rise Time	1000ms 30ms/230VAC 2000ms 30ms/115VAC		
Withstand Voltage	I/P-O/P:1.5KVAC /P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute		
Isolation Resistance	RHI/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH		
Working Temp,Humidity	-10℃~+60℃,20%~90%RH		
Safety Standard	Compliance to GB4943		
EMC Standard	Compliance to EN55032 class A		
Weight	0.48Kg		

● OVERALL DIMENSION(MM)



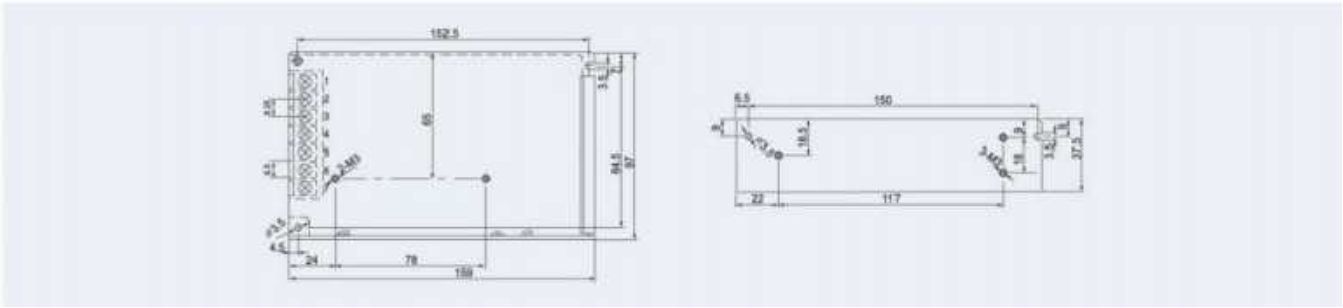
IPS-SPS-SERIES-75W SINGLE GROUP

- Single output: 75W power
- Input Voltage: 110-220VAC±20% switch choose
- Size:159*98*38mm(L*W*H)

●TECHNICAL PARAMETERS

Technical performance	Technical Index		
Model	IPS-SPS-75-12	IPS-SPS-75-15	IPS-SPS-75-24
DC Voltage/Rated Current	12V/6.3A	15V/5A	24V/3A
Ripple &Noise(Max)	50mVp-p	75mVp-p	75mVp-p
Line Regulation	±0.5%	±0.5%	±0.5%
Load Regulation	±0.5%	±0.5%	±0.5%
Efficiency	78%	79%	82%
Voltage Adj.range	±10%	±10%	±10%
Input Voltage Range	90-132VAC/180-264VAC selected by switch 240-370VDC switch on 230VAC		
Inrush Current	42A/230VAC Cold-Start Current		
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed		
Over-voltage Protection	115%-145%		
	Protection type:Shutdown o/p voltage,recovers automatically after fault condition is removed		
Start,Rise Time	1000ms 30ms/230VAC 2000ms 30ms/115VAC		
Withstand Voltage	I/P-O/P:1.5KVAC /P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute		
Isolation Resistance	RHI/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH		
Working Temp,Humidity	-10℃~+60℃,20%~90%RH		
Safety Standard	Compliance to GB4943		
EMC Standard	Compliance to EN55032 class A		
Weight	0.49Kg		

● OVERALL DIMENSION(MM)



IPS-SPS-SERIES-100W SINGLE GROUP

Single output: 100W power

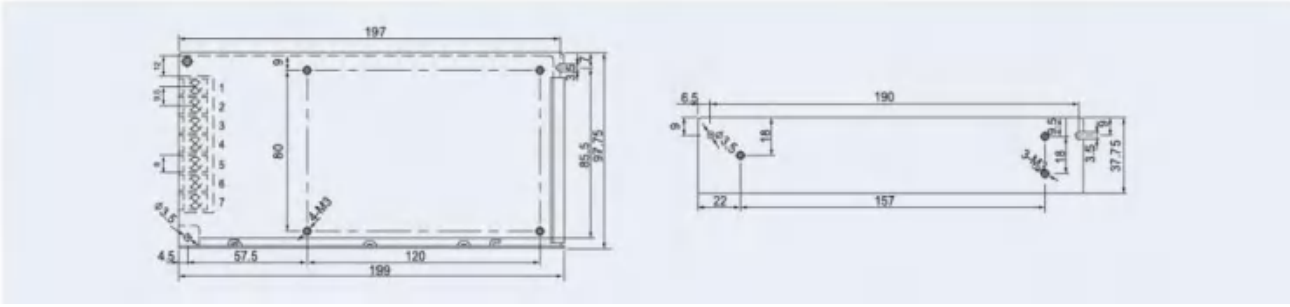
Input Voltage: 110-220VAC±20% switch choose

Size:199*98*38mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index				
Model	IPS-SPS-100-5	IPS-SPS-100-12	IPS-SPS-100-15	IPS-SPS-100-24	IPS-SPS-100-48
DC Voltage/Rated Current	5V/20A	12V/8.5A	15V/6.7A	24V/4.5A	48V/2A
Ripple &Noise(Max)	50mVp-p	50mVp-p	75mVp-p	75mVp-p	120mVp-p
Line Regulation	±0.5%	±0.3%	±0.3%	±0.2%	±0.2%
Load Regulation	±0.5%	±0.3%	±0.3%	±0.2%	±0.2%
Efficiency	78%	82%	83%	84%	85%
Voltage Adj.range	±10%	±10%	±10%	±10%	±10%
Input Voltage Range	90-132VAC/180-264VAC selected by switch 240-370VDC switch on 230VAC				
Inrush Current	42A/230VAC Cold-Start Current				
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed				
Over-voltage Protection	115%-145%				
	Protection type:Shutdown o/p voltage,recovers automatically after fault condition is removed				
Start,Rise Time	1000ms 30ms/230VAC 2000ms 30ms/115VAC				
Withstand Voltage	I/P-O/P:1.5KVAC /P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute				
Isolation Resistance	RHI/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH				
Working Temp,Humidity	-10℃~+60℃,20%~90%RH				
Safety Standard	Compliance to GB4943				
EMC Standard	Compliance to EN55032 class A				
Weight	0.6Kg				

● OVERALL DIMENSION(MM)



IPS-SPS-SERIES-120W SINGLE GROUP

Single output: 120W power

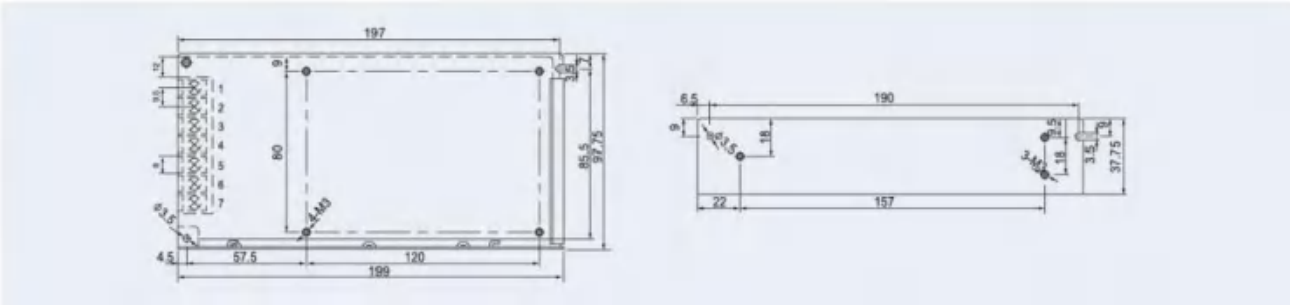
Input Voltage: 110-220VAC±20% switch choose

Size:199*98*38mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index				
Model	IPS-SPS-120-5	IPS-SPS-120-12	IPS-SPS-120-15	IPS-SPS-120-24	IPS-SPS-120-48
DC Voltage/Rated Current	5V/22A	12V/10A	15V/8A	24V/5A	48V/2.5A
Ripple &Noise(Max)	50mVp-p	50mVp-p	75mVp-p	75mVp-p	120mVp-p
Line Regulation	±0.5%	±0.3%	±0.3%	±0.2%	±0.2%
Load Regulation	±0.5%	±0.3%	±0.3%	±0.2%	±0.2%
Efficiency	78%	82%	83%	84%	85%
Voltage Adj.range	±10%	±10%	±10%	±10%	±10%
Input Voltage Range	90-132VAC/180-264VAC selected by switch 240-370VDC switch on 230VAC				
Inrush Current	42A/230VAC Cold-Start Current				
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed				
Over-voltage Protection	115%-145%				
	Protection type:Shutdown o/p voltage,recovers automatically after fault condition is removed				
Start,Rise Time	1000ms 30ms/230VAC 2000ms 30ms/115VAC				
Withstand Voltage	I/P-O/P:1.5KVAC /P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute				
Isolation Resistance	RHI/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH				
Working Temp,Humidity	-10℃~+60℃,20%~90%RH				
Safety Standard	Compliance to GB4943				
EMC Standard	Compliance to EN55032 class A				
Weight	0.6Kg				

● OVERALL DIMENSION(MM)



IPS-SPS-SERIES-145W SINGLE GROUP

Single output: 145W power

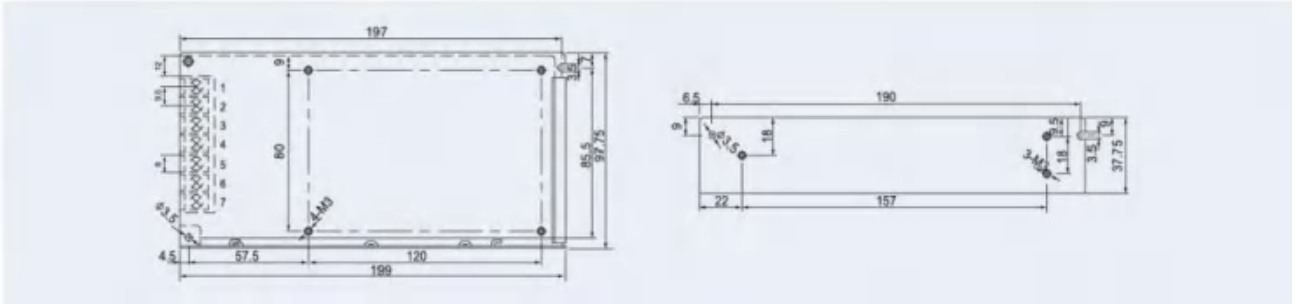
Input Voltage: 110-220VAC±20% switch choose

Size:199*98*38mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index			
Model	IPS-SPS-145-5	IPS-SPS-145-7.5	IPS-SPS-145-12	IPS-SPS-145-24
DC Voltage/Rated Current	5V/25A	7.5V/18A	12V/12A	24V/6A
Ripple &Noise(Max)	100mVp-p	100mVp-p	100mVp-p	100mVp-p
Line Regulation	±0.5%	±0.5%	±0.3%	±0.2%
Load Regulation	±1%	±0.5%	±0.3%	±0.2%
Efficiency	76%	80.5%	80.5%	83.5%
Voltage Adj.range	±10%	±10%	±10%	±10%
Input Voltage Range	90-132VAC/180-264VAC selected by switch 240-370VDC switch on 230VAC			
Inrush Current	42A/230VAC Cold-Start Current			
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed			
Over-voltage Protection	115%-145%			
	Protection type:Shutdown o/p voltage,recovers automatically after fault condition is removed			
Start,Rise Time	1000ms 30ms/230VAC 2000ms 30ms/115VAC			
Withstand Voltage	I/P-O/P:1.5KVAC /P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute			
Isolation Resistance	RHI/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH			
Working Temp,Humidity	-10℃~+60℃,20%~90%RH			
Safety Standard	Compliance to GB4943			
EMC Standard	Compliance to EN55032 class A			
Weight	0.65Kg			

● OVERALL DIMENSION(MM)



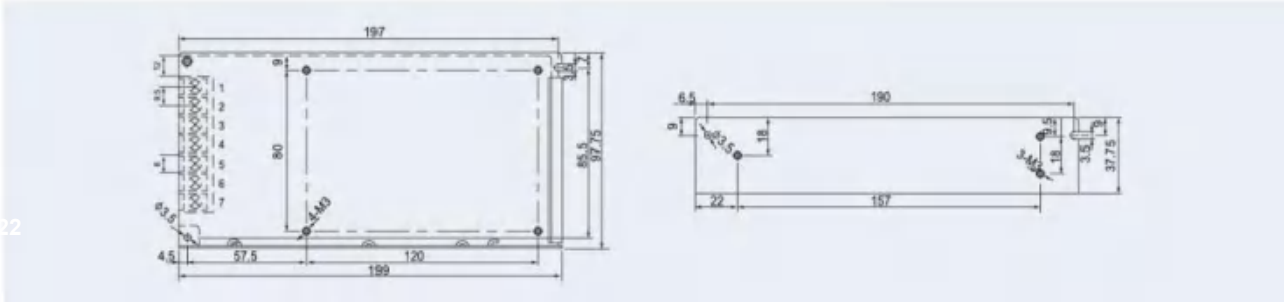
IPS-SPS-SERIES-150W SINGLE GROUP

- Single output: 150W power
- Input Voltage: 110-220VAC±20% switch choose
- Size:199*98*38mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index				
Model	IPS-SPS-150-5	IPS-SPS-150-12	IPS-SPS-150-15	IPS-SPS-150-24	IPS-SPS-150-48
DC Voltage/Rated Current	5V/27A	12V/12..5A	15V/10A	24V/6.5A	48V/3.2A
Ripple &Noise(Max)	50mVp-p	50mVp-p	75mVp-p	100mVp-p	120mVp-p
Line Regulation	±0.5%	±0.3%	±0.3%	±0.2%	±0.2%
Load Regulation	±0.5%	±0.3%	±0.3%	±0.2%	±0.2%
Efficiency	83%	82%	83%	84%	86%
Voltage Adj.range	±10%	±10%	±10%	±10%	±10%
Input Voltage Range	90-132VAC/180-264VAC selected by switch 240-370VDC switch on 230VAC				
Inrush Current	42A/230VAC Cold-Start Current				
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed				
Over-voltage Protection	115%-145% Protection type:Shutdown o/p voltage,recovers automatically after fault condition is removed				
Start,Rise Time	1000ms 30ms/230VAC 2000ms 30ms/115VAC				
Withstand Voltage	I/P-O/P:1.5KVAC /P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute				
Isolation Resistance	RHI/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH				
Working Temp,Humidity	-10℃~+60℃,20%~90%RH				
Safety Standard	Compliance to GB4943				
EMC Standard	Compliance to EN55032 class A				
Weight	0.65Kg				

● OVERALL DIMENSION(MM)



IPS-SPS-SERIES-200W SINGLE GROUP

Single output: 20W power

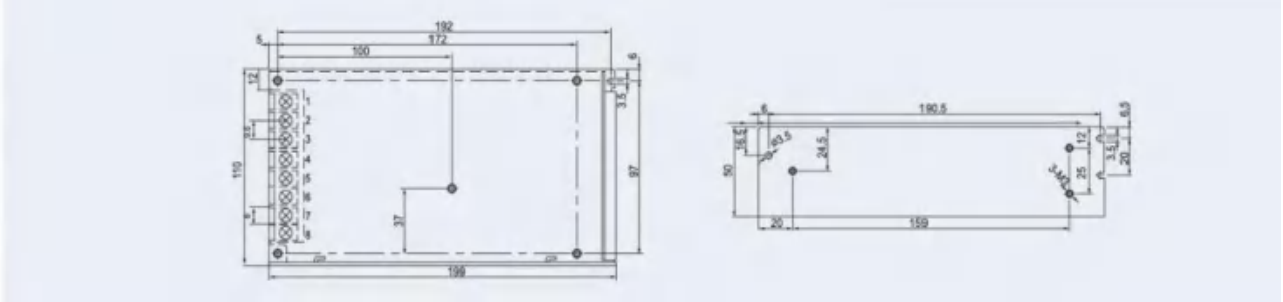
Input Voltage: 110-220VAC±20% switch choose

Size:199*110*50mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index				
Model	IPS-SPS-150-5	IPS-SPS-150-12	IPS-SPS-150-15	IPS-SPS-150-24	IPS-SPS-150-48
DC Voltage/Rated Current	5V/27A	12V/12..5A	15V/10A	24V/6.5A	48V/3.2A
Ripple &Noise(Max)	50mVp-p	50mVp-p	75mVp-p	100mVp-p	120mVp-p
Line Regulation	±0.5%	±0.3%	±0.3%	±0.2%	±0.2%
Load Regulation	±0.5%	±0.3%	±0.3%	±0.2%	±0.2%
Efficiency	83%	82%	83%	84%	86%
Voltage Adj.range	±10%	±10%	±10%	±10%	±10%
Input Voltage Range	90-132VAC/180-264VAC selected by switch 240-370VDC switch on 230VAC				
Inrush Current	42A/230VAC Cold-Start Current				
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed				
Over-voltage Protection	115%-145%				
	Protection type:Shutdown o/p voltage,recovers automatically after fault condition is removed				
Start,Rise Time	1000ms 30ms/230VAC 2000ms 30ms/115VAC				
Withstand Voltage	I/P-O/P:1.5KVAC /P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute				
Isolation Resistance	RHI/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH				
Working Temp,Humidity	-10℃~+60℃,20%~90%RH				
Safety Standard	Compliance to GB4943				
EMC Standard	Compliance to EN55032 class A				
Weight	0.65Kg				

● OVERALL DIMENSION(MM)



IPS-SPS-SERIES-240W SINGLE GROUP

Single output: 240W power

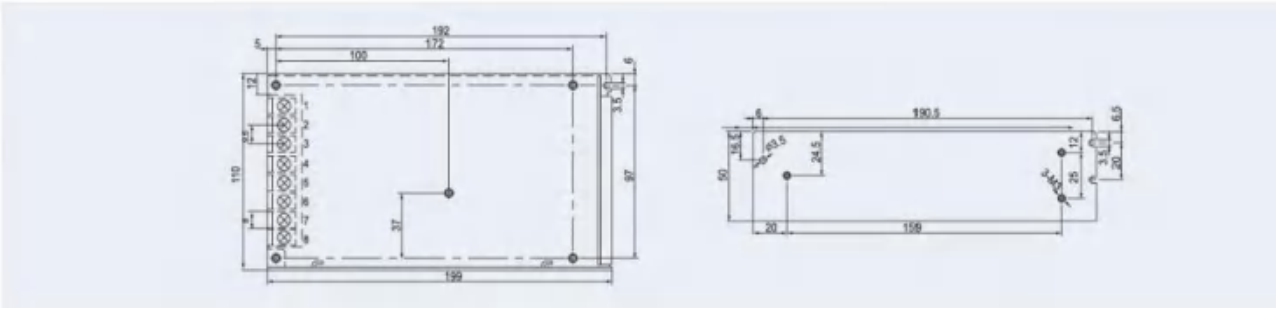
Input Voltage: 110-220VAC±20% switch choose

Size:199*110*50mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index				
Model	IPS-SPS-200-5	IPS-SPS-200-12	IPS-SPS-200-15	IPS-SPS-200-24	IPS-SPS-200-48
DC Voltage/Rated Current	5V/40A	12V/16A	15V/13.3A	24V/8.3A	48V/4.2A
Ripple &Noise(Max)	50mVp-p	50mVp-p	75mVp-p	100mVp-p	120mVp-p
Line Regulation	±0.5%	±0.3%	±0.3%	±0.2%	±0.2%
Load Regulation	±0.5%	±0.3%	±0.3%	±0.2%	±0.2%
Efficiency	83%	82%	83%	84%	86%
Voltage Adj.range	±10%	±10%	±10%	±10%	±10%
Input Voltage Range	90-132VAC/180-264VAC selected by switch 240-370VDC switch on 230VAC				
Inrush Current	42A/230VAC Cold-Start Current				
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed				
Over-voltage Protection	115%-145%				
	Protection type:Shutdown o/p voltage,recovers automatically after fault condition is removed				
Start,Rise Time	1000ms 30ms/230VAC 2000ms 30ms/115VAC				
Withstand Voltage	I/P-O/P:1.5KVAC /P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute				
Isolation Resistance	RHI/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH				
Working Temp,Humidity	-10℃~+60℃,20%~90%RH				
Safety Standard	Compliance to GB4943				
EMC Standard	Compliance to EN55032 class A				
Weight	0.85Kg				

● OVERALL DIMENSION(MM)



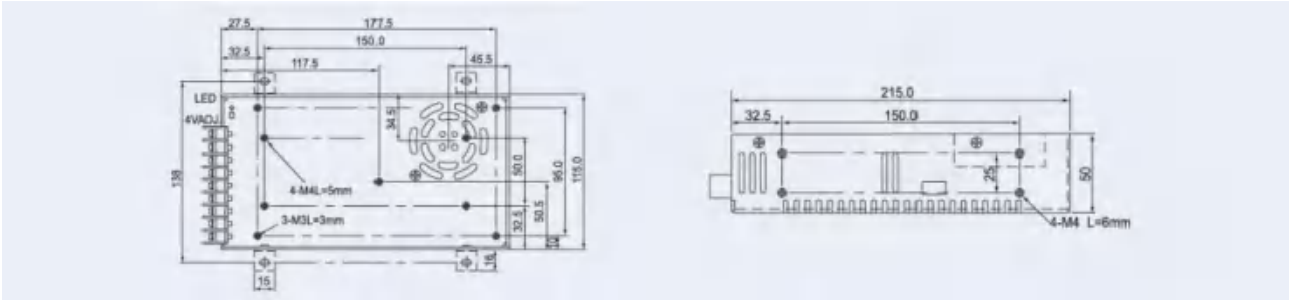
IPS-SPS-SERIES-250W SINGLE GROUP

- Single output: 250W power
- Input Voltage: 110-220VAC±20% switch choose
- Size:215*115*50mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index			
Model	IPS-SPS-250-12	IPS-SPS-250-15	IPS-SPS-250-24	IPS-SPS-250-48
DC Voltage/Rated Current	12V/20A	15V/16A	24V/10A	48V/5A
Ripple &Noise(Max)	75mVp-p	75mVp-p	100mVp-p	120mVp-p
Line Regulation	±0.3%	±0.3%	±0.3%	±0.2%
Load Regulation	±0.3%	±0.3%	±0.3%	±0.2%
Efficiency	82%	83%	85%	86%
Voltage Adj.range	±10%	±10%	±10%	±10%
Input Voltage Range	90-132VAC/180-264VAC selected by switch 240-370VDC switch on 230VAC			
Inrush Current	42A/230VAC Cold-Start Current			
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed			
Over-voltage Protection	115%-145%			
	Protection type:Shutdown o/p voltage,recovers automatically after fault condition is removed			
Start,Rise Time	1000ms 30ms/230VAC 2000ms 30ms/115VAC			
Withstand Voltage	I/P-O/P:1.5KVAC /P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute			
Isolation Resistance	RHI/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH			
Working Temp,Humidity	-10℃~+60℃,20%~90%RH			
Safety Standard	Compliance to GB4943			
EMC Standard	Compliance to EN55032 class A			
Weight	0.95Kg			

● OVERALL DIMENSION(MM)



IPS-SPS-SERIES-350W SINGLE GROUP

Single output: 350W power

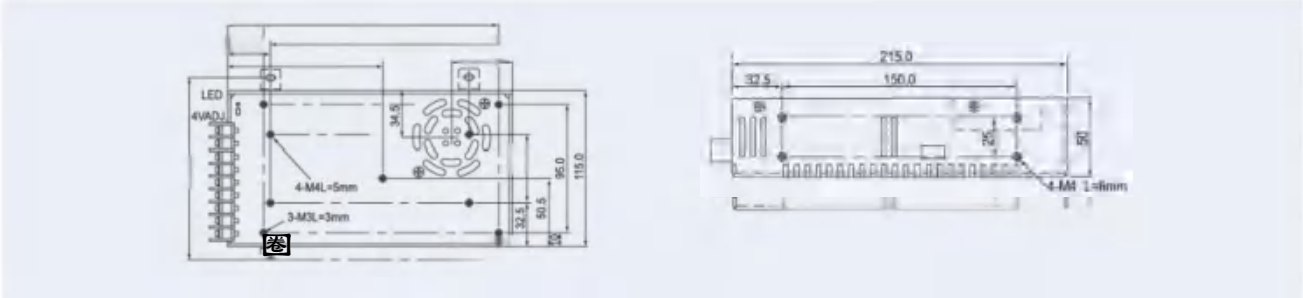
Input Voltage: 110-220VAC±20% switch choose

Size:215*115*50mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index			
Model	IPS-SPS-350-5	IPS-SPS-350-12	IPS-SPS-350-24	IPS-SPS-350-48
DC Voltage/Rated Current	5V/50A	12V/29A	24V/14.6A	48V/7.3A
Ripple &Noise(Max)	75mVp-p	75mVp-p	100mVp-p	120mVp-p
Line Regulation	±1%	±1%	±1%	±1%
Load Regulation	±1.5%	±1.2%	±1%	±0.5%
Efficiency	74%	82%	84%	86%
Voltage Adj.range	±10%	±10%	±10%	±10%
Input Voltage Range	90-132VAC/180-264VAC selected by switch 240-370VDC switch on 230VAC			
Inrush Current	42A/230VAC Cold-Start Current			
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed			
Over-voltage Protection	115%-145%			
	Protection type:Shutdown o/p voltage,recovers automatically after fault condition is removed			
Start,Rise Time	1000ms 30ms/230VAC 2000ms 30ms/115VAC			
Withstand Voltage	I/P-O/P:1.5KVAC /P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute			
Isolation Resistance	RHI/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH			
Working Temp,Humidity	-10℃~+60℃,20%~90%RH			
Safety Standard	Compliance to GB4943			
EMC Standard	Compliance to EN55032 class A			
Weight	0.98/Kg			

● OVERALL DIMENSION(MM)



IPS-SPS-SERIES-400W SINGLE GROUP

Single output: 400W power

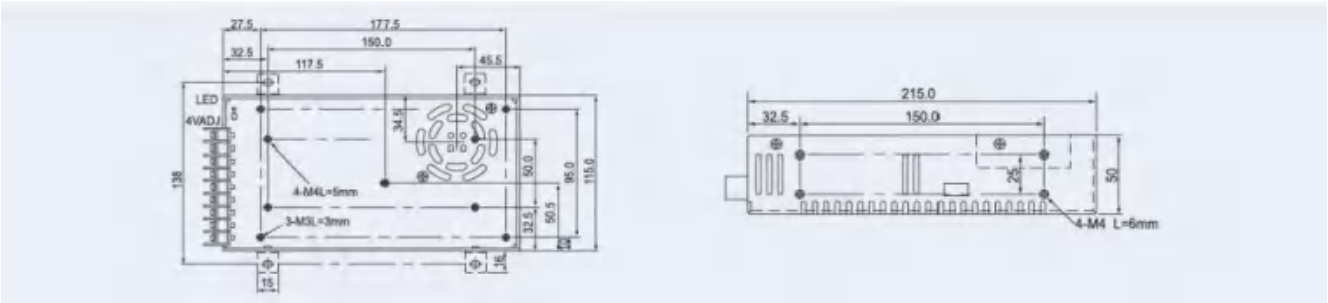
Input Voltage: 110-220VAC±20% switch choose

Size:215*115*50mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index			
Model	IPS-SPS-400-5	IPS-SPS-400-12	IPS-SPS-400-24	IPS-SPS-400-48
DC Voltage/Rated Current	5V/55A	12V/33.3A	24V/16.6A	48V/8.3A
Ripple &Noise(Max)	100mVp-p	150mVp-p	150mVp-p	240mVp-p
Line Regulation	±1.0%	±1.0%	±1.0%	±1.0%
Load Regulation	±1.5%	±1.2%	±1%	±0.5%
Efficiency	78%	82%	84%	86%
Voltage Adj.range	±10%	±10%	±10%	±10%
Input Voltage Range	90-132VAC/180-264VAC selected by switch 240-370VDC switch on 230VAC			
Inrush Current	42A/230VAC Cold-Start Current			
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed			
Over-voltage Protection	115%-145%			
	Protection type:Shutdown o/p voltage,recovers automatically after fault condition is removed			
Start,Rise Time	1000ms 30ms/230VAC 2000ms 30ms/115VAC			
Withstand Voltage	I/P-O/P:1.5KVAC /P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute			
Isolation Resistance	RHI/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH			
Working Temp,Humidity	-10℃~+60℃,20%~90%RH			
Safety Standard	Compliance to GB4943			
EMC Standard	Compliance to EN55032 class A			
Weight	1.1/Kg			

● OVERALL DIMENSION(MM)



IPS-SPS-SERIES-500W SINGLE GROUP

Single output: 500W power

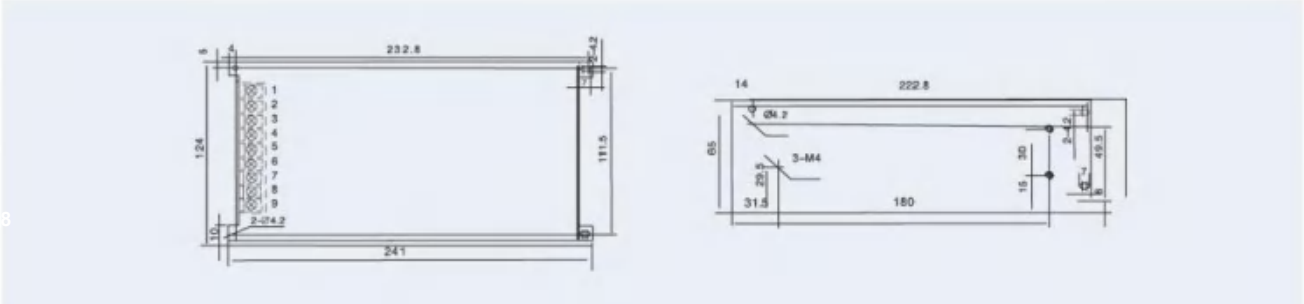
Input Voltage: 180-264VAC±20% switch choose

Size:234*124*64mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index			
Model	IPS-SPS-500-12V	IPS-SPS-500-24V	IPS-SPS-500-36V	IPS-SPS-500-48V
DC Voltage/Rated Current	12V/40A	24V/20A	36V/13.9A	48V/10A
Ripple &Noise(Max)	75mVp-p	100mVp-p	100mVp-p	120mVp-p
Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%
Load Regulation	±0.5%	±0.5%	±0.5%	±0.5%
Efficiency	84%	85%	84%	87%
Voltage Adj.range	±10%	±10%	±10%	±10%
Input Voltage Range	180-264VAC 240-370DC			
Inrush Current	42A/230VAC Cold-Start Current			
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed			
Over-voltage Protection	115%-145%			
	Protection type:Shutdown o/p voltage,recovers automatically after fault condition is removed			
Start,Rise Time	1000ms 30ms/230VAC 2000ms 30ms/115VAC			
Withstand Voltage	I/P-O/P:1.5KVAC /P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute			
Isolation Resistance	RHI/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH			
Working Temp,Humidity	-10℃~+60℃,20%~90%RH			
Safety Standard	Compliance to GB4943			
EMC Standard	Compliance to EN55032 class A			
Weight	1.3/Kg			

● OVERALL DIMENSION(MM)



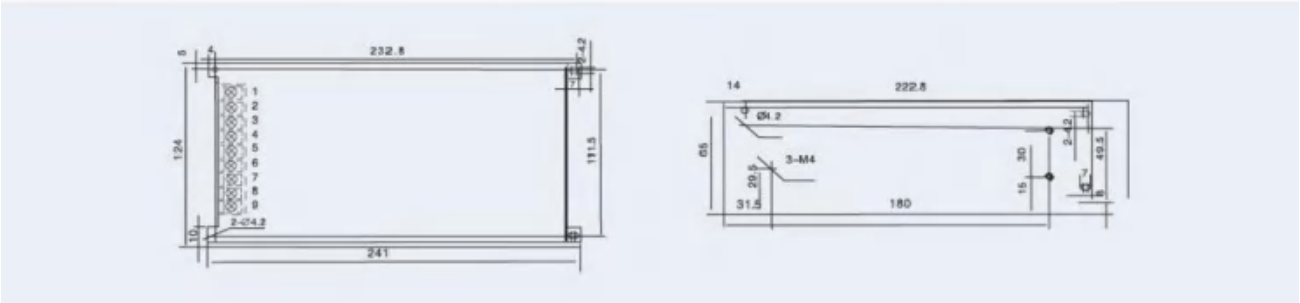
IPS-SPS-SERIES-600W SINGLE GROUP

- Single output: 600W power
- Input Voltage: 180-264VAC±20% switch choose
- Size:234*124*64mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index			
Model	IPS-SPS-600-12V	IPS-SPS-600-24V	IPS-SPS-600-36V	IPS-SPS-600-48V
DC Voltage/Rated Current	12V/50A	24V/25A	36V/16.7A	48V/12.5A
Ripple &Noise(Max)	75mVp-p	100mVp-p	100mVp-p	120mVp-p
Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%
Load Regulation	±0.5%	±0.5%	±0.5%	±0.5%
Efficiency	84%	85%	84%	87%
Voltage Adj.range	±10%	±10%	±10%	±10%
Input Voltage Range	180-264VAC 240-370DC			
Inrush Current	42A/230VAC Cold-Start Current			
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed			
Over-voltage Protection	115%-145%			
	Protection type:Shutdown o/p voltage,recovers automatically after fault condition is removed			
Start,Rise Time	1000ms 30ms/230VAC 2000ms 30ms/115VAC			
Withstand Voltage	I/P-O/P:1.5KVAC /P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute			
Isolation Resistance	RHI/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH			
Working Temp,Humidity	-10℃~+60℃,20%~90%RH			
Safety Standard	Compliance to GB4943			
EMC Standard	Compliance to EN55032 class A			
Weight	1.3/Kg			

● OVERALL DIMENSION(MM)



IPS-SPS-SERIES-1000W SERIES SWITCH POWER SUPPLY

Max Power: 1000W

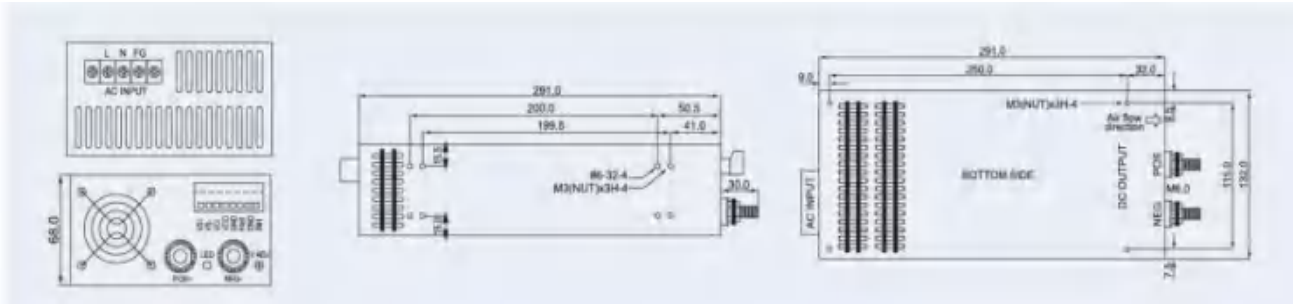
Input Voltage: 180-264VAC±20% switch choose

Size:291*132*68mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index					
Model	IPS-SPS-1000-12	IPS-SPS-1000-13.5	IPS-SPS-1000-15	IPS-SPS-1000-24	IPS-SPS-1000-36	IPS-SPS-150-48
DC Voltage/Rated Current	12V/83A	13.5V/74A	15V/67A	24V/41.7A	24V/6.5A	48V/3.2A
Ripple &Noise(Max)	200mVp-p	200mVp-p	50mVp-p	75mVp-p	100mVp-p	120mVp-p
Line Regulation	±0.5%	±0.5%	±0.3%	±0.3%	±0.2%	±0.2%
Load Regulation	±0.5%	±0.5%	±0.3%	±0.3%	±0.2%	±0.2%
Efficiency	84%	84%	85%	85.5%	86.5%	87%
Voltage Adj.range	±10%	±10%	±10%	±10%	±10%	±10%
Input Voltage Range	90-132VAC/180-264VAC selected by switch 240-370VDC switch on 230VAC					
Inrush Current	42A/230VAC Cold-Start Current					
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed					
Over-voltage Protection	115%-145%					
	Protection type:Shutdown o/p voltage,recovers automatically after fault condition is removed					
Start,Rise Time	1000ms 30ms/230VAC 2000ms 30ms/115VAC					
Withstand Voltage	I/P-O/P:1.5KVAC /P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute					
Isolation Resistance	RHI/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH					
Working Temp,Humidity	-10℃~+60℃,20%~90%RH					
Safety Standard	Compliance to GB4943					
EMC Standard	Compliance to EN55032 class A					
Weight	0.65Kg					

● OVERALL DIMENSION(MM)



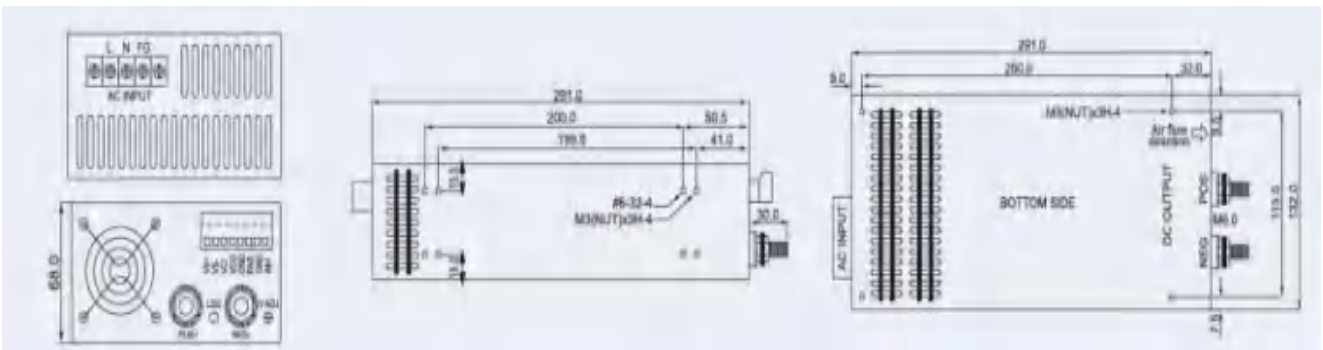
IPS-SPS-SERIES-1200W SERIES SWITCH POWER SUPPLY

- Single output: 1000W power
- Input Voltage: 180-264VAC±20% switch choose
- Size:291*132*64mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index		
Model	IPS-SPS-1200-24	IPS-SPS-1200-36	IPS-SPS-1200-48
DC Voltage/Rated Current	24V/50A	36V/33A	48V/25A
Ripple &Noise(Max)	200mVp-p	200mVp-p	200mVp-p
Line Regulation	±0.5%	±0.5%	±0.5%
Load Regulation	±0.5%	±0.5%	±0.5%
Efficiency	85.5%	86.5%	87%
Voltage Adj.range	±10%	±10%	±10%
Input Voltage Range	180-264VAC / 240-370VDC		
Inrush Current	42A/230VAC Cold-Start Current		
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed		
Over-voltage Protection	115%-145%		
	Protection type:Shutdown o/p voltage,recovers automatically after fault condition is removed		
Start,Rise Time	1000ms 30ms/230VAC 2000ms 30ms/115VAC		
Withstand Voltage	I/P-O/P:1.5KVAC /P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute		
Isolation Resistance	RHI/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH		
Working Temp,Humidity	-10℃~+60℃,20%~90%RH		
Safety Standard	Compliance to GB4943		
EMC Standard	Compliance to EN55032 class A		
Weight	2.5Kg		

● OVERALL DIMENSION(MM)



IPS-NDR GUIDE RIAL SERIES-75

105℃ output capacitor; globally applicable AC input power supply High efficiency, low operating temperature

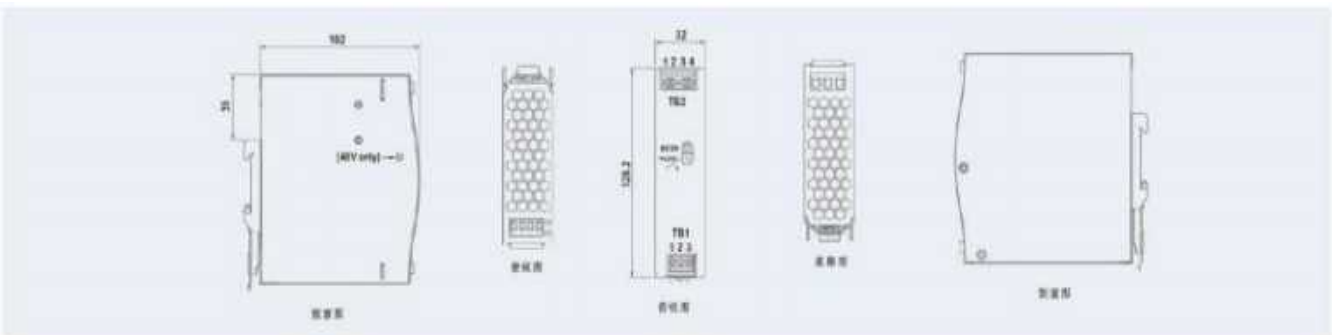
100% full load burn-in test; built-in EMI filter, extremely small ripple

Size:32*125.2*102mm(L*W*H)

•TECHNICAL PARAMETERS

Technical Performance	Technical Index		
Model	IPS-NDR-75-12	IPS-NDR-75-24	IPS-NDR-75-48
DC Voltage/Rated Current	12V/6.3A	24V/3.2A	48V/1.6A
Ripple &Noise(Max)	80mVp-p	120mVp-p	150mVp-p
Line Regulation	±3%	±1%	+1%
Load Regulation	±1%	±1%	+1%
Efficiency	87%	88%	93%
Voltage Adj.range	±10%	±10%	±10%
Input Voltage Range	85-264VAC 120-370VDC		
Inrush Current	42A/230VAC cold-Start Current		
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automaicaly after fault condition is removed		
Over-voltage Protection	115%~145%		
	Protection type:Shut down o/p voltage,recovers automatically after fault condition is remove		
Start,Rise Time	1000ms 30ms/230VAC 2000ms 30ms/115VAC		
Withstand Voltage	I/P-O/P:1.5KVAC /P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute		
Isolation Resistance	RHI/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH		
Working Temp,Humidity	-10℃~+60℃,20%~90%RH		
Safety Standard	Compliance to GB4943		
EMC Standard	Compliance to EN55032 class A		
Weight	0.4Kg		

• OVERALL DIMENSION(MM)



IPS-NDR GUIDE RIAL SERIES-120

105℃ output capacitor; globally applicable AC input power supply High efficiency, low operating temperature

100% full load burn-in test; built-in EMI filter, extremely small ripple

Size:32*125.2*102mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index		
Model	IPS-NDR-120-12	IPS-NDR-120-24	IPS-NDR-120-48
DC Voltage/Rated Current	12V/10A	24V/5A	48V/2.5A
Ripple &Noise(Max)	100mVp-p	120mVp-p	150mVp-p
Line Regulation	±3%	±2%	+1%
Load Regulation	±1%	±1%	+1%
Efficiency	85%	88%	93%
Voltage Adj.range	±10%	±10%	±10%
Input Voltage Range	85-264VAC 120-370VDC		
Inrush Current	42A/230VAC cold-Start Current		
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automaicaly after fault condition is removed		
Over-voltage Protection	115%~145%		
	Protection type:Shut down o/p voltage,recovers automatically after fault condition is remove		
Start,Rise Time	1000ms 30ms/230VAC 2000ms 30ms/115VAC		
Withstand Voltage	I/P-O/P:1.5KVAC /P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute		
Isolation Resistance	RHI/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH		
Working Temp,Humidity	-10℃~+60℃,20%~90%RH		
Safety Standard	Compliance to GB4943		
EMC Standard	Compliance to EN55032 class A		
Weight	0.48Kg		

● OVERALL DIMENSION(MM)

IPS-NDR GUIDE RIAL SERIES-240

105℃ output capacitor; globally applicable AC input power supply High efficiency, low operating temperature

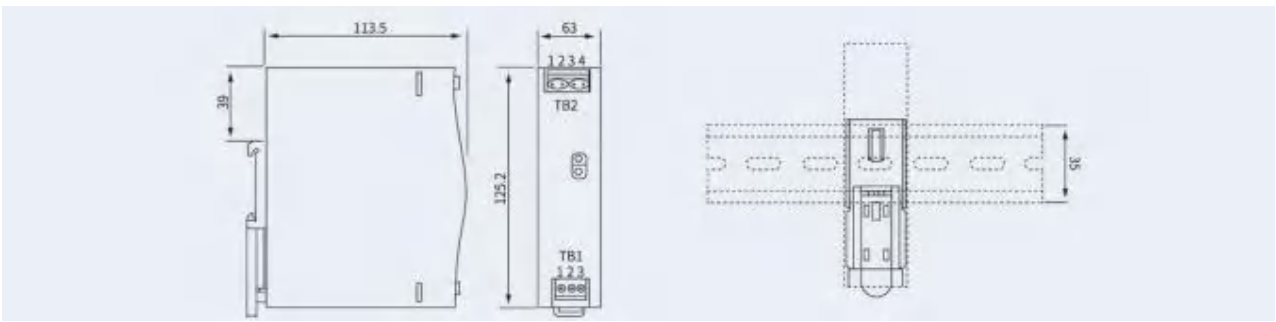
100% full load burn-in test; built-in EMI filter, extremely small ripple

Size:32*125.2*102mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index	
Model	IPS-NDR-240-24	IPS-NDR-240-48
DC Voltage/Rated Current	24V/10A	48V/5A
Ripple &Noise(Max)	150mVp-p	150mVp-p
Line Regulation	±2%	±0.5%
Load Regulation	±1%	±1%
Efficiency	88%	90%
Voltage Adj.range	±10%	±10%
Input Voltage Range	85-264VAC 120-370VDC	
Inrush Current	42A/230VAC cold-Start Current	
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed	
Over-voltage Protection	115%~145%	
	Protection type:Shut down o/p voltage,recovers automatically after fault condition is remove	
Start,Rise Time	1000ms 30ms/230VAC 2000ms 30ms/115VAC	
Withstand Voltage	I/P-O/P:1.5KVAC /P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute	
Isolation Resistance	RHI/P-O/P,I/P-FG,O/P-FG:100M Ohms/500VDC/25℃/70%RH	
Working Temp,Humidity	-10℃~+60℃,20%~90%RH	
Safety Standard	Compliance to GB4943	
EMC Standard	Compliance to EN55032 class A	
Weight	0.76Kg	

● OVERALL DIMENSION(MM)



IPS-NDR GUIDE RIAL SERIES-480

Input Voltage: 180-264VAC

Protection type: short circuit/overcurrent/overcurrent/overtemperature

Natural air cooling, working efficiency up to 93%, burn in test at 100% full load

Size:85.5*125.2*128.5mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index	
Model	IPS-NDR-480-24	IPS-NDR-480-48
DC Voltage/Rated Current	24V/20A	48V/10A
Ripple &Noise(Max)	200mVp-p	250mVp-p
Line Regulation	+1%	+1%
Load Regulation	+1%	+1%
Efficiency	91%	93%
Voltage Adj.range	24-28V	±10%
Input Voltage Range	85-264VAC 127-640VDC	
Inrush Current	40A/230VAC	
Overload Protection	110%-130%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed	
Over-voltage Protection	29-33V	
	Protection type:Shut down o/p voltage,recovers automatically after fault condition is remove	
Start,Rise Time	1000ms 30ms/230VAC 2000ms 30ms/115VAC	
Withstand Voltage	I/O:800VAC; I/G:800VAC; O/G:500VAC	
Isolation Resistance	I/O:100Mhms/500VDC/25℃/70%RH	
Working Temp,Humidity	-30℃~70℃(refer to derating curve) 20~90%RH without condensation	
Safety Standard	Compliance to GB4943	
EMC Standard	Compliance to EN55032 class A	
Weight	1.3Kg	

● OVERALL DIMENSION(MM)

TB1terminal pin definition：

Pin number	Pin function
1	FGO
2	ACIN or DC-
3	AC/L or DC+

TB2 terminal pin definition：

Pinnumber	Pin function
1,2	DC OUTPUT-V
3,4	DC OUTPUT+V

Top View Side View Front View Side View Bottom Figure

IPS-EDR GUIDE RIAL SERIES-75

Low price, high reliability; 105℃ output capacitor; AC input power suitable for the world

High efficiency and low operation temperature; soft start current, effectively reducing AC input impact

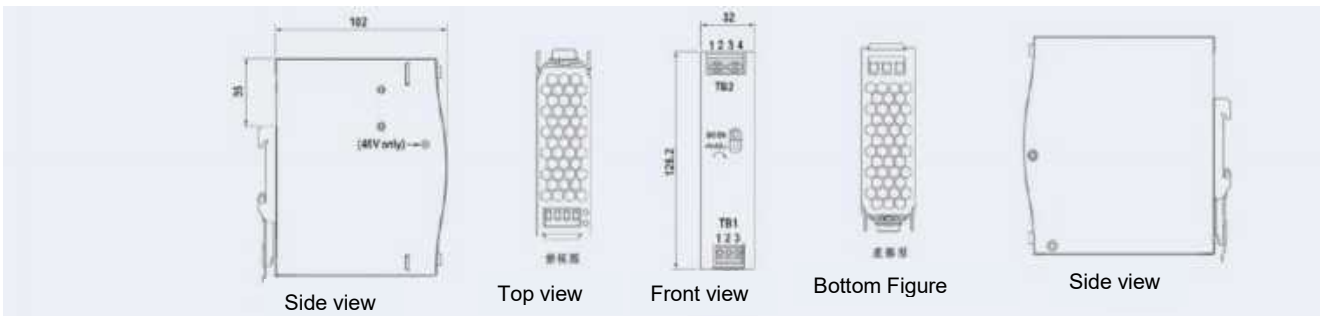
With short circuit protection and overload protection; small size and light weight; 100% full load burn-in test; built-in EMI filter, extremely small ripple

Size:32*125.2*102mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index		
Mode	IPS-EDR-75-12	IPS-EDR-75-24	EDR-75-48
DC Voltage/Rated Current	12V/6.3A	24V/3.2A	48V/1.6A
Ripple &Noise(Max)	80mVp-p	120mVp-p	150mVp-p
Line Regulation	±3%	±1%	+1%
Load Regulation	±1%	±1%	+1%
Efficiency	87%	88%	93%
Voltage Adj.range	±10%	±10%	±10%
Input Voltage Range	85-264VAC 120-370VDC		
Inrush Current	42A/230VACCold-Start Current		
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed		
Over-voltage Protection	115%~145%		
	Protection type:Shut down o/p voltage,recovers automatically after fault condition is remove		
Start,Rise Time	1000ms 30ms/230VAC 2000ms 30ms/115VAC		
Withstand Voltage	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute		
Isolation Resistance	RHI/P-O/P,I/P-FG:100Mhms/500VDC/25℃/70%RH		
Working Temp,Humidity	-10℃~+60℃,20%~90%RH		
Safety Standard	Compliance to GB4943		
EMC Standard	Compliance to EN55032 class A		
Weight	0.4Kg		

● OVERALL DIMENSION(MM)



IPS-EDR GUIDE RIAL SERIES-120

Low price, high reliability; 105℃ output capacitor; AC input power suitable for the world

High efficiency and low operation temperature; soft start current, effectively reducing AC input impact

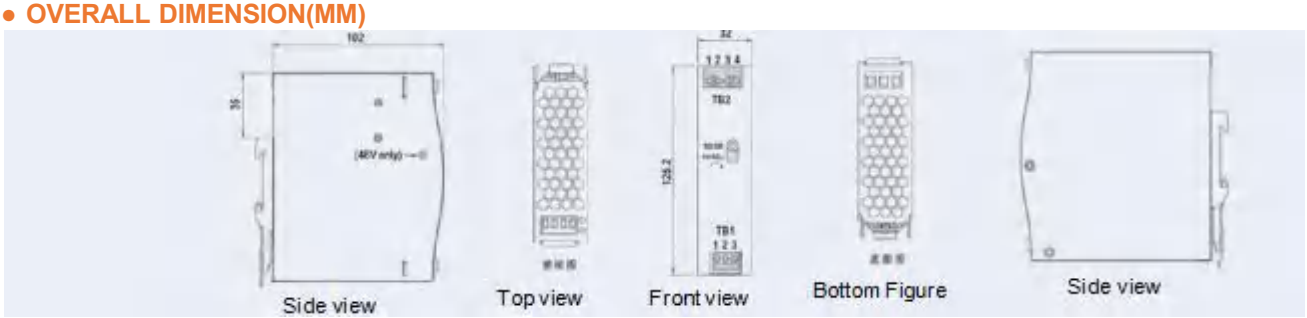
With short circuit protection and overload protection; small size and light weight; 100% full load burn-in test; built-in EMI filter, extremely small ripple

Size:40*125.2*113.5mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index		
Mode	IPS-EDR-120-12	IPS-EDR-120-24	IPS-EDR-120-48
DC Voltage/Rated Current	12V/10A	24V/5A	48V/2.5A
Ripple &Noise(Max)	100mVp-p	120mVp-p	150mVp-p
Line Regulation	±3%	±2%	+1%
Load Regulation	±1%	±1%	+1%
Efficiency	85%	88%	93%
Voltage Adj.range	±10%	±10%	±10%
Input Voltage Range	85-264VAC 120-370VDC		
Inrush Current	42A/230VACCold-Start Current		
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed		
Over-voltage Protection	115%~145%		
	Protection type:Shut down o/p voltage,recovers automatically after fault condition is remove		
Start,Rise Time	1000ms 30ms/230VAC 2000ms 30ms/115VAC		
Withstand Voltage	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute		
Isolation Resistance	RHI/P-O/P,I/P-FG:100Mhms/500VDC/25℃/70%RH		
Working Temp,Humidity	-10℃~+60℃,20%~90%RH		
Safety Standard	Compliance to GB4943		
EMC Standard	Compliance to EN55032 class A		
Weight	0.48Kg		

● OVERALL DIMENSION(MM)



IPS-EDR GUIDE RIAL SERIES-150

Low price, high reliability; 105℃ output capacitor; AC input power suitable for the world

High efficiency and low operation temperature; soft start current, effectively reducing AC input impact

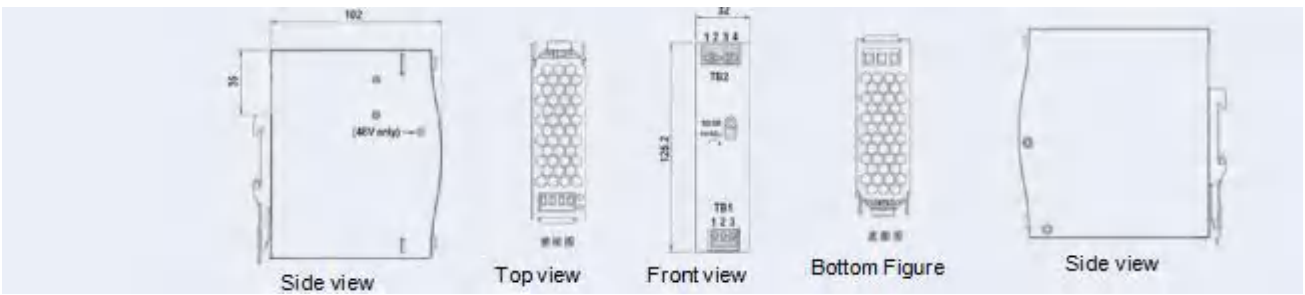
With short circuit protection and overload protection; small size and light weight; 100% full load burn-in test; built-in EMI filter, extremely small ripple

Size:40*125*113.5mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index		
Mode	IPS-EDR-150-12	VEDR-150-24	IPS-EDR-150-48
DC Voltage/Rated Current	12V/12.5A	24V/6.25A	48V/3.1A
Ripple &Noise(Max)	100mVp-p	120mVp-p	150mVp-p
Line Regulation	±2%	±2%	+1%
Load Regulation	±1%	±1%	+1%
Efficiency	88%	88%	93%
Voltage Adj.range	±10%	±10%	±10%
Input Voltage Range	85-264VAC 120-370VDC		
Inrush Current	42A/230VACCold-Start Current		
Overload Protection	110%-150%rated output power,Protection type:Hiccup mode,recovers automatically after fault condition is removed		
Over-voltage Protection	115%~145%		
	Protection type:Shut down o/p voltage,recovers automatically after fault condition is remove		
Start,Rise Time	1000ms 30ms/230VAC 2000ms 30ms/115VAC		
Withstand Voltage	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC 1minute		
Isolation Resistance	RHI/P-O/P,I/P-FG:100Mhms/500VDC/25℃/70%RH		
Working Temp,Humidity	-10℃~+60℃,20%~90%RH		
Safety Standard	Compliance to GB4943		
EMC Standard	Compliance to EN55032 class A		
Weight	0.51Kg		

● OVERALL DIMENSION(MM)



IPS-MDR-10 series switching power supply

Protection type： short circuit/overload/overvoltage
Natural air cooling

Installation guide rail:TS-35/7.5 or TS-35/15
Built in active DC OK signal

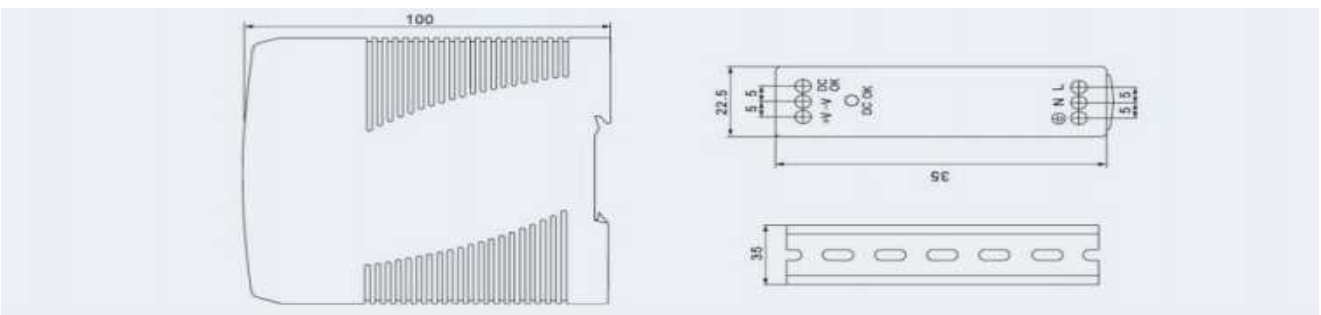
LED power indication
No load power loss:<0.75W
100% full load aging test
3-year warranty

Size:22.5*90*100mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index			
Mode	IPS-MDR-10-5	IPS-EDR-10-12	IPS-EDR-10-15	IPS-EDR-10-24
DC Voltage/Rated Current	5V/2A	12V/0.84A	15V/0.67A	24V/0.42A
Ripple &Noise(Max)	80mVp-p	120mVp-p	120mVp-p	150mVp-p
Line Regulation	±1.0%	±1.0%	±1.0%	±1.0%
Load Regulation	±5.0%	±3.0%	±3.0%	±2.0%
Efficiency	87%	81%	81%	84%
Voltage Adj.range	0~5V	0~12V	0~15V	0~24V
Input Voltage Range	85-264VAC 120-370VDC			
Inrush Current	35A/115VAC 70A/230VAC Cold-Start Current			
Overload Protection	Above 105%of rated output power			
	Protection mode:isolation mode, automatic recovers automatically after fault condition is removed			
Overvoltage Protection	5.75~6.75V	13.8~16.2V	17.25~20.25V	27.6~32.4V
	Protection mode:tum off the output voltage and restore it after restart			
Start,Rise Time	500ms 30ms/230VAC 1000ms 30ms/115VAC			
Withstand Voltage	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC			
Isolation Resistance	RHI/P-O/P,I/P-FG:100M Ohms /500VDC/25℃ /70%RH			
Working Temp,Humidity	-20℃~+70℃, 20%~90%RH			
Safety Standard	UL508, TUV EN60950-1			

● OVERALL DIMENSION(MM)



IPS-MDR-20 series switching power supply

International universal full range AC input
Protection type： short circuit/overload/overvoltage
Natural air cooling

Installation guide rail:TS-35/7.5 or TS-35/15
Built in active DC OK signal

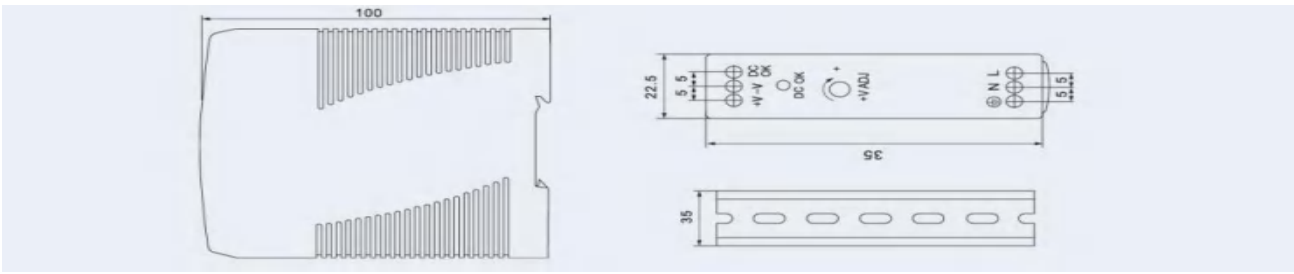
LED power indication
No load power loss:<0.75W
100% full load aging test
4-year warranty

Size:22.5*90*100mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index			
Mode	IPS-MDR-20-5	IPS-MDR-20-12	IPS-MDR-20-15	IPS-MDR-20-24
DC Voltage/Rated Current	5V/3A	12V/1.67A	15V/1.34A	24V/1A
Ripple &Noise(Max)	80mVp-p	120mVp-p	120mVp-p	150mVp-p
Line Regulation	±1.0%	±1.0%	±1.0%	±1.0%
Load Regulation	±1.0%	±1.0%	±1.0%	±1.0%
Efficiency	76%	80%	81%	84%
Voltage Adj.range	4.75~5.5V	10.8~13.2V	13.5~16.5V	21.6~26.4V
Input Voltage Range	85-264VAC 120-370VDC			
Inrush Current	20A/115VAC 40A/230VAC Cold-Start Current			
Overload Protection	105%~160%of rated output power			
	Protection mode:constant current limit,automatic recovers automatically after fault condition is removed			
Overvoltage Protection	5.75~6.75V	13.8~16.2V	17.25~20.25V	27.6~32.4V
	Protection mode:tum off the output voltage and restore it after restart			
Start,Rise Time	500ms 30ms/230VAC 1000ms 30ms/115VAC			
Withstand Voltage	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC			
Isolation Resistance	RHI/P-O/P,I/P-FG:100M Ohms /500VDC/25℃ /70%RH			
Working Temp,Humidity	-20℃~+70℃, 20%~90%RH			
Safety Standard	UL508, TUV EN60950-1			

● OVERALL DIMENSION(MM)



IPS-MDR-40 series switching power supply

International universal full range AC input
Protection type： short circuit/overload/overvoltage
Natural air cooling

Installation guide rail:TS-35/7.5 or TS-35/15
Built in active DC OK signal

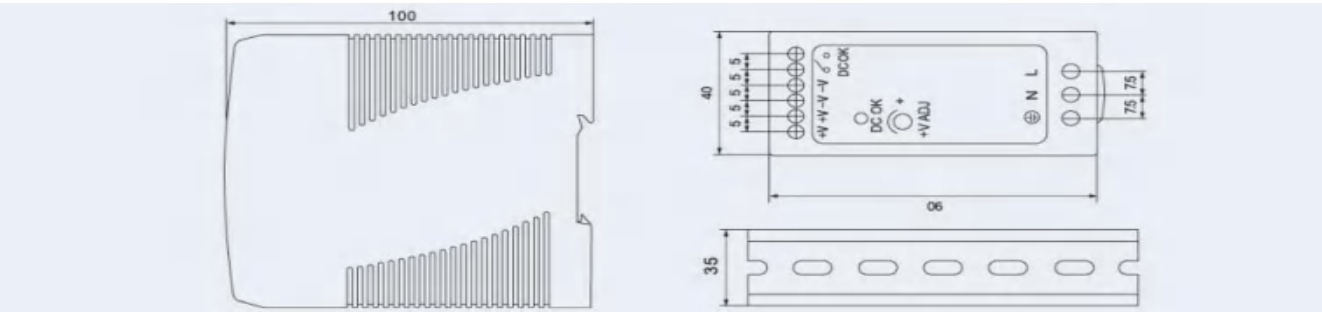
LED power indication
No load power loss:<0.75W
100% full load aging test
5-year warranty

Size:40*90*100mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index			
Mode	IPS-MDR-40-5	IPS-MDR-40-12	IPS-MDR-40-24	IPS-MDR-40-48
DC Voltage/Rated Current	5V/6A	12V/3.33A	24V/1.7A	48V/0.83A
Ripple &Noise(Max)	80mVp-p	120mVp-p	150mVp-p	200mVp-p
Line Regulation	±1.0%	±1.0%	±1.0%	±1.0%
Load Regulation	±1.0%	±1.0%	±1.0%	±1.0%
Efficiency	78%	86%	88%	88%
Voltege Adj.range	5~6V	12~15V	24~30V	48~56V
Input Voltage Range	85-264VAC 120-370VDC			
Inrush Current	30A/115VAC 60A/230VAC Cold-Start Current			
Overload Protection	105%~160%of rated output power			
	Protection mode:constant current limit,automatic recovers automatically after fault condition is removed			
Overvoltage Protection	6.25~7.25V	15.8~18V	31.2~36V	57.6~64.8V
	Protection mode:tum off the output voltage and restore it after restart			
Start,Rise Time	500ms 30ms/230VAC 500ms 30ms/115VAC			
Withstand Voltage	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC			
Isolation Resistance	RHI/P-O/P,I/P-FG:100M Ohms /500VDC/25℃ /70%RH			
Working Temp,Humidity	-20℃~+70℃, 20%~90%RH			
Safety Standard	UL508,UL60950-1,TUV EN60950-1,Class I,Div,2 Group A,B,C,D Hazardous ocations T4			

● OVERALL DIMENSION(MM)



IPS-MDR-60 series switching power supply

International universal full range AC input
Protection type： short circuit/overload/overvoltage
Natural air cooling

Installation guide rail:TS-35/7.5 or TS-35/15
Built in active DC OK signal

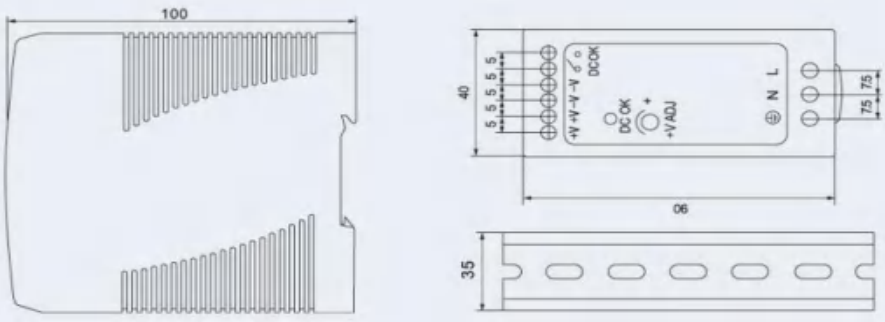
LED power indication
No load power loss:<0.75W
100% full load aging test
6-year warranty

Size:40*90*100mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index			
Mode	IPS-MDR-60-5	IPS-MDR-60-12	IPS-MDR-60-24	IPS-MDR-60-48
DC Voltage/Rated Current	5V/10A	12V/5A	24V2.5A	48V/1.25A
Ripple &Noise(Max)	80mVp-p	120mVp-p	150mVp-p	200mVp-p
Line Regulation	±1.0%	±1.0%	±1.0%	±1.0%
Load Regulation	±1.5%	±1.0%	±1.0%	±1.0%
Efficiency	78%	86%	88%	87%
Voltage Adj.range	5~6V	12~15V	24~30V	48~56V
Input Voltage Range	85-264VAC 120-370VDC			
Inrush Current	30A/115VAC 60A/230VAC Cold-Start Current			
Overload Protection	105%~160%of rated output power			
	Protection mode:constant current limit,automatic recovers automatically after fault condition is removed			
Overvoltage Protection	6.25~7.25V	15.8~18V	31.2~36V	57.6~64.8V
	Protection mode:tum off the output voltage and restore it after restart			
Start,Rise Time	500ms 30ms/230VAC 500ms 30ms/115VAC			
Withstand Voltage	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC			
Isolation Resistance	RHI/P-O/P,I/P-FG:100M Ohms /500VDC/25℃ /70%RH			
Working Temp,Humidity	-20℃~+70℃, 20%~90%RH			
Safety Standard	UL508,UL60950-1,TUV EN60950-1,Class I,Div,2 Group A,B,C,D Hazardous ocations T4			

● OVERALL DIMENSION(MM)



IPS-MDR-100 series switching power supply

International universal full range AC input
Protection type： short circuit/overload/overvoltage
Natural air cooling

Installation guide rail:TS-35/7.5 or TS-35/15
Built in active DC OK signal

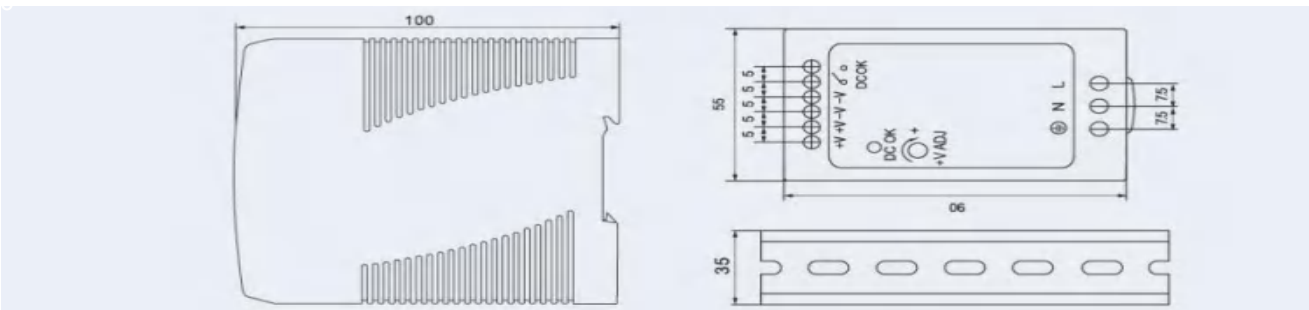
LED power indication
No load power loss:<0.75W
100% full load aging test
7-year warranty

Size:55*90*100mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index		
Mode	IPS-MDR-100-12	IPS-MDR-100-24	IPS-MDR-100-48
DC Voltage/Rated Current	12V/7.5A	24V4A	48V/2A
Ripple &Noise(Max)	120mVp-p	150mVp-p	200mVp-p
Line Regulation	±1.0%	±1.0%	±1.0%
Load Regulation	±1.0%	±1.0%	±1.0%
Efficiency	83%	86%	87%
Voltege Adj.range	12~15V	24~30V	48~56V
Input Voltage Range	85-264VAC 120-370VDC		
Inrush Current	30A/115VAC 60A/230VAC Cold-Start Current		
Overload Protection	105%~150%of rated output power		
	Protection mode:constant current limit,automatic recovers automatically after fault condition is removed		
Overvoltage Protection	15.8~18V	31.2~36V	57.6~64.8V
	Protection mode:tum off the output voltage and restore it after restart		
Start,Rise Time	3000ms 50ms/230VAC 3000ms 50ms/115VAC		
Withstand Voltage	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC		
Isolation Resistance	RHI/P-O/P,I/P-FG:100M Ohms /500VDC/25℃ /70%RH		
Working Temp,Humidity	-20℃~+70℃, 20%~90%RH		
Safety Standard	UL508, TUV EN60950-1		

● OVERALL DIMENSION(MM)



IPS-SP-1000W series switching power supply

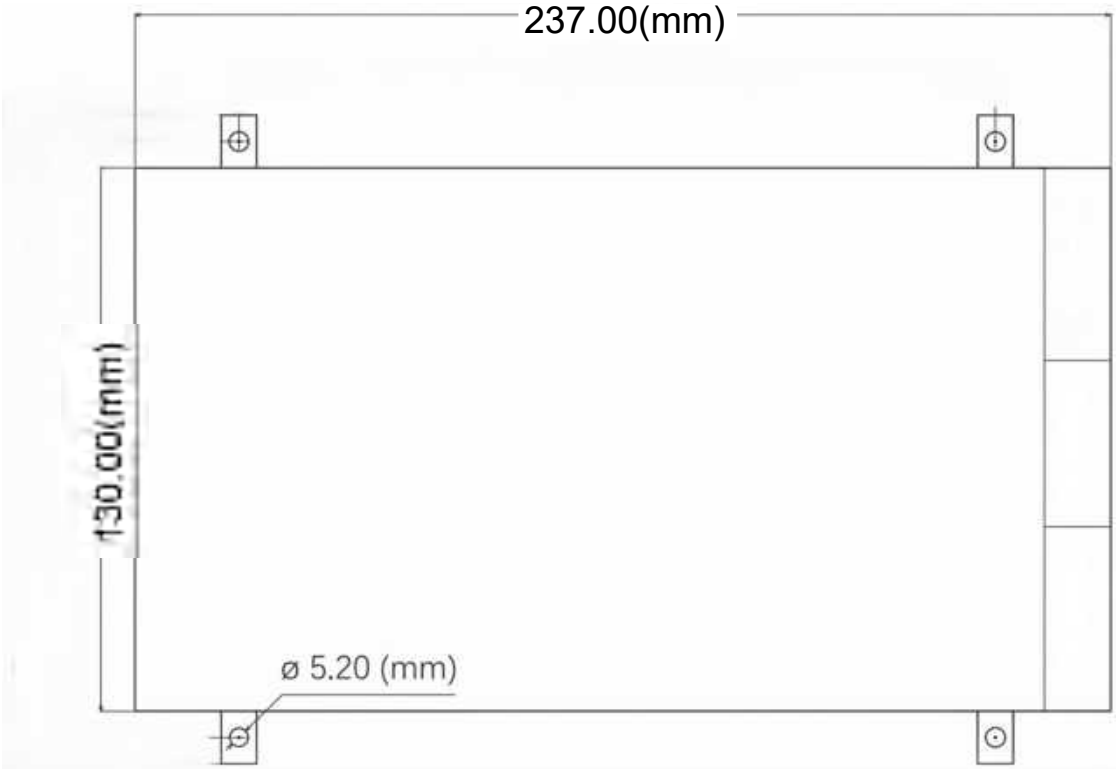
- Voltage input range: 180-264 VAC
- Protection type: short circuit/over current/over temperature Analog voltage control
- Main circuit external switch control
- Size:237*130*65mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index								
Model	IPS-SP-1000-12	IPS-SP-1000-24	IPS-SP -1000-36	IPS-SP -1000-48	IPS-SP-1000-72	IPS-SP-1000-96	IPS-SP-1000-110	IPS-SP-1000-150	IPS-SP-1000-220
Output									
DC Voltage	12VDC	24VDC	36VDC	48VDC	72VDC	96VDC	110VDC	150VC	220VDC
Rated Current	83.3A	41.7A	27.8A	20.8A	13.9A	10.4A	9.1A	6.7A	4.5A
Current Range	0 - 83.3A	0 - 41.7A	0 - 27.8A	0 - 20.8A	0 - 13.9A	0 - 10.4A	0 - 9.1A	0 - 6.7A	0 - 4.5A
Rated Power	1000W								
Ripple	200mV	200mV	260mV	350mV	500mV	600mV	850mV	900mV	1000mV
Constant Current Optimum Range	6 - 12V	12 - 24V	18 - 36V	24 - 48V	36 - 72V	48 - 96V	55 - 110V	75 - 150V	110 - 220V
Voltage Accuracy	± 1.0%								
Linear Regulation Rate	± 1.0%								
Load Regulation Rate	± 1.0%								
Start-Up & Rise Time	1500mS，100mS/230VAC(Fully loaded）								
Input									
Voltage Range	180 - 264VAC / 245 - 370VDC								
Frequency Range	45Hz - 65Hz								
Power Factor	PF≧0.65/230VAC (Fully loaded)								
Efficiency	85 %	86 %	87 %	89 %	90 %	90 %	90 %	91 %	91 %
AC Current	＜ 11A								
Leakage Current	＜ 3.0mA / 240VAC								
Protection Function									
Short Circuit	Input constant current								
Over Temperature	Output shutdown, automatic recovery or restart after temperature drops								
Output Voltage Adjustment	0 - 13.2V	0 - 26.4V	0 - 39.6V	0 - 52.8V	0 - 79.2V	0 - 105.6V	0 - 121V	0 - 165V	0 - 242V

Output Constant Current Adjustment	0 - 83.3A	0 - 41.7A	0 - 27.8A	0 - 20.8A	0 - 13.9A	0 - 10.4A	0 - 9.1A	0 - 6.7A	0 - 4.5A
External Potentiometer	External potentiometer control (voltage, current)								
Analog Voltage Control	0 - 5V / 0 - 10V control (voltage, current)								
Auxiliary Power Supply	12V 0.5A								
Remote Control Switch	Default power on, high level power off (3V-12V)								
Environment									
Working Temperature	-20 - +60℃								
Working Humidity	-20 - 90% RH non-condensing								
Storage Temperature And Humidity	-40 - +85℃, 10 - 95% RH non-condensing								
Vibration Resistance	10 - 500Hz, 2G 10 minutes/cycle, 60 minutes each for X, Y, Z axis								
Safety									
Insulation Resistance	Input to output: 100Mhms/500VDC/25℃/70%RH								
Withstand Voltage	I/P-O/P: 1.2KVAC I/P-FG: 1.2KVAC O/P-FG: 0.5KVAC								
Others									
Size	237*130*65mm（L*W*H）								
Weight	/KG								
Remark									
1. All parameters are measured at 230VAC input voltage, rated load and 25℃ unless otherwise specified. 2. Ripple and noise voltage are measured with a 20MHz bandwidth oscilloscope with 0.1μ and 47μ capacitors added to the end of a 12-inch twisted pair, and measured at 20MHZ bandwidth. 3. Accuracy: includes setting error, linear regulation rate and load regulation rate. 4. Output must be derated for low input voltage conditions, please refer to the static characteristic curve for details. 5. Startup time is measured under cold start, and frequent switching may increase the startup time.									

• OVERALL DIMENSION(MM)



IPS-SP-1000W series switching power supply

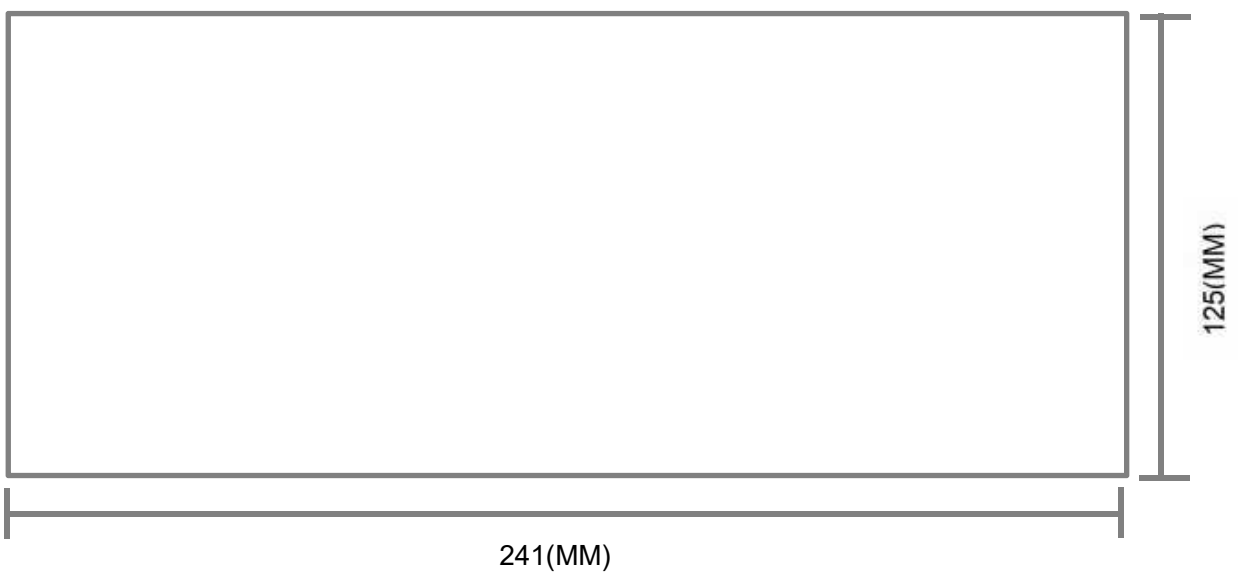
Over voltage/Under Voltage/Overload/
Over temperature/Fan stop protection

Size:241*125*65mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index												
Model	IPS-SP1000-12	IPS-SP1000-24	IPS-SP1000-48	IPS-SP1000-60	PS-SP1000-100	PS-SP1000-200	PS-SP1000-400	PS-SP1000-500	PS-SP1000-600	IPS-SP1000-700	IPS-SP1000-800	IPS-SP1000-900	IPS-SP1000-1000
Output Parameters													
DC Output Voltage	12VDC	24VDC	48VDC	60VDC	100VDC	200VDC	400VDC	500VDC	600VDC	700VDC	800VDC	900VDC	1000VDC
Rated Output Current	83.3A	42A	21A	16.7A	10A	5A	2.5A	2A	1.66A	1.43A	1.25A	1.11A	1A
Rated Output Power	1000W	1000W	1000W	1000W	1000W	1000W	1000W	1000W	1000W	1000W	1000W	1000W	1000W
Input Parameters													
Input Voltage	95-264Vac												
Input Frequency	50/60HZ												
Others													
Working Temperature	-25-50℃												
Size	Length 241mm * width 125mm * height 65mm												
Weight	1.29kg (excluding package and accessories)												
Installation Hole Position	Length spacing: 228mm Width spacing: 158mm Use matching mounting brackets (can only be installed parallel, not side mounted)												

● OVERALL DIMENSION(MM)



IPS-SP-1200W series switching power supply

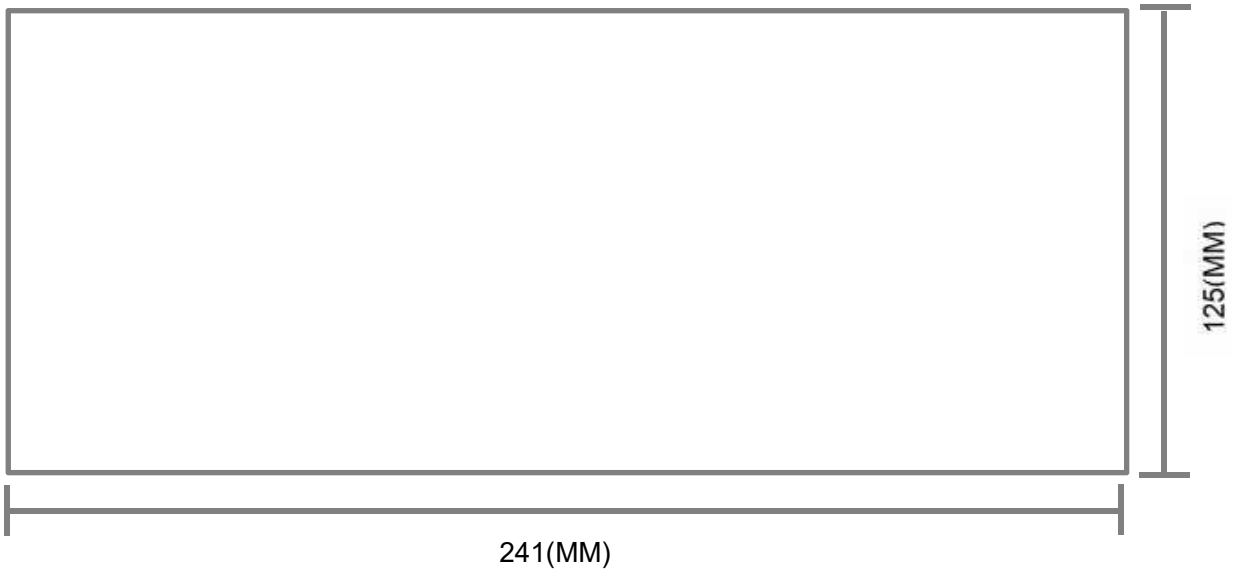
Over voltage/Under Voltage/Overload/
Over temperature/Fan stop protection

Size:241*125*65mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index													
Model	IPS-SP1200-12	IPS-SP1200-20	IPS-SP1200-24	IPS-SP1200-30	IPS-SP1200-60	IPS-SP1200-100	IPS-SP1200-200	IPS-SP1200-300	IPS-SP1200-400	IPS-SP1200-500	IPS-SP1200-600	IPS-SP1200-700	IPS-SP1200-800	IPS-SP1200-1000
Output Parameters														
DC Output Voltage	12VDC	20VDC	24VDC	30VDC	60VDC	100VDC	200VDC	300VDC	400VDC	500VDC	600VDC	700VDC	800VDC	1000VDC
Rated Output Current	100A	60A	50A	40A	20A	12A	6A	4A	3A	2.4A	2A	1.7A	1.5A	1.2A
Rated Output Power	1200W	1200W	1200W	1200W	1200W	1200W	1200W	1200W	1200W	1200W	1200W	1200W	1200W	1200W
Input Parameters														
Input Voltage	95-264Vac													
Input Frequency	50/60HZ													
Others														
Working Temperature	-25-50℃													
Size	Length 241mm * width 125mm * height 65mm													
Weight	1.55kg (excluding package and accessories)													
Installation Hole Position	Length spacing: 228mm Width spacing: 158mm Use matching mounting brackets (can only be installed parallel, not side mounted)													

● OVERALL DIMENSION(MM)



IPS-SP-1500W series switching power supply

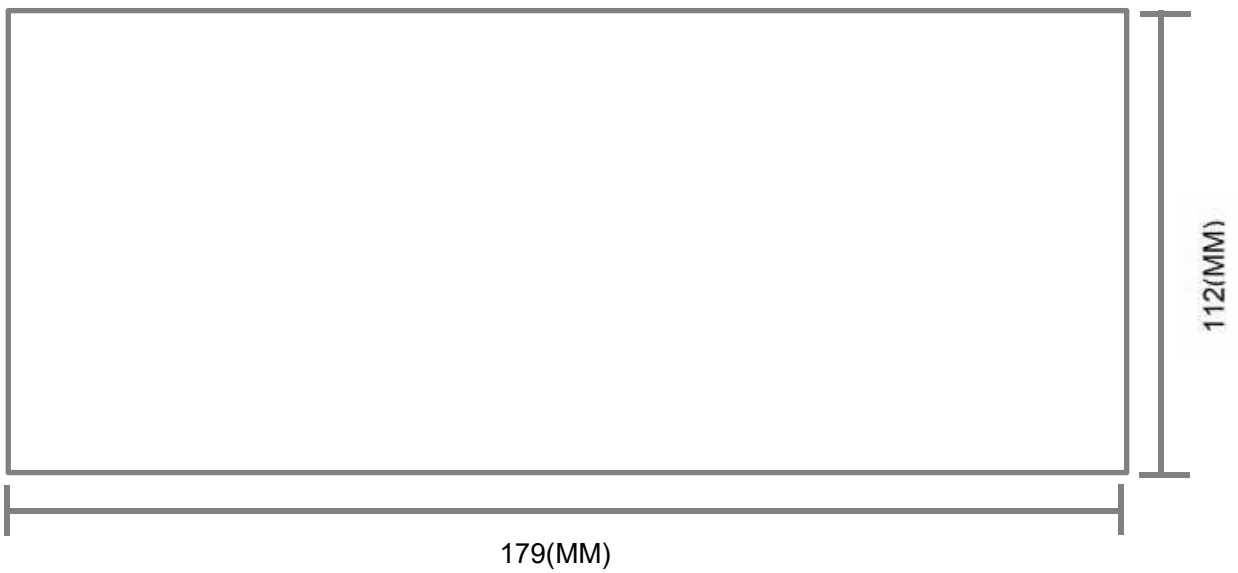
Over voltage/Under Voltage/Overload/
Over temperature/Fan stop protection

Size:265*145*65mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index																					
Model	IPS-SP1500 -12	IPS-SP1500 -15	IPS-SP1500 -20	IPS-SP1500 -25	IPS-SP1500 -30	IPS-SP1500 -40	IPS-SP1500 -50	IPS-SP1500 -60	IPS-SP1500 -75	IPS-SP1500 -100	IPS-SP1500 -125	IPS-SP1500 -150	IPS-SP1500 -200	IPS-SP1500 -250	IPS-SP1500 -300	IPS-SP1500 -375	IPS-SP1500 -500	IPS-SP1500 -600	IPS-SP1500 -700	IPS-SP1500 -800	IPS-SP1500 -900	IPS-SP1500 -1000
Output Parameters																						
DC Output Voltage	12VDC	15VDC	20VDC	25VDC	30VDC	40VDC	50VDC	60VDC	75VDC	100VDC	125VDC	150VDC	200VDC	250VDC	300VDC	375VDC	500VDC	600VDC	700VDC	800VDC	900VDC	1000VDC
Rated Output Current	125A	100A	75A	60A	50A	37.5A	30A	25A	20A	15A	12A	10A	7.5A	6A	5A	4A	3A	2.5A	2.14A	1.87A	1.66A	1.5A
Rated Output Power	1500W	1500W	1500W	1500W	1500W	1500W	1500W	1500W	1500W	1500W	1500W	1500W	1500W	1500W	1500W	1500W	1500W	1500W	1500W	1500W	1500W	1500W
Input Parameters																						
Input Voltage	95-264Vac																					
Input Frequency	50/60HZ																					
Others																						
Working Temperature	-25-50℃																					
Size	Length 265mm * width 145mm * height 65mm																					
Weight	2.75kg (excluding package and accessories)																					
Installation Hole Position	Length spacing: 228mm Width spacing: 158mm Use matching mounting brackets (can only be installed parallel, not side mounted)																					

● OVERALL DIMENSION(MM)



IPS-SP-1500W series switching power supply

Voltage input range: 180-264 VAC

Protection type: short circuit/over current/over temperature Analog voltage control

Main circuit external switch control

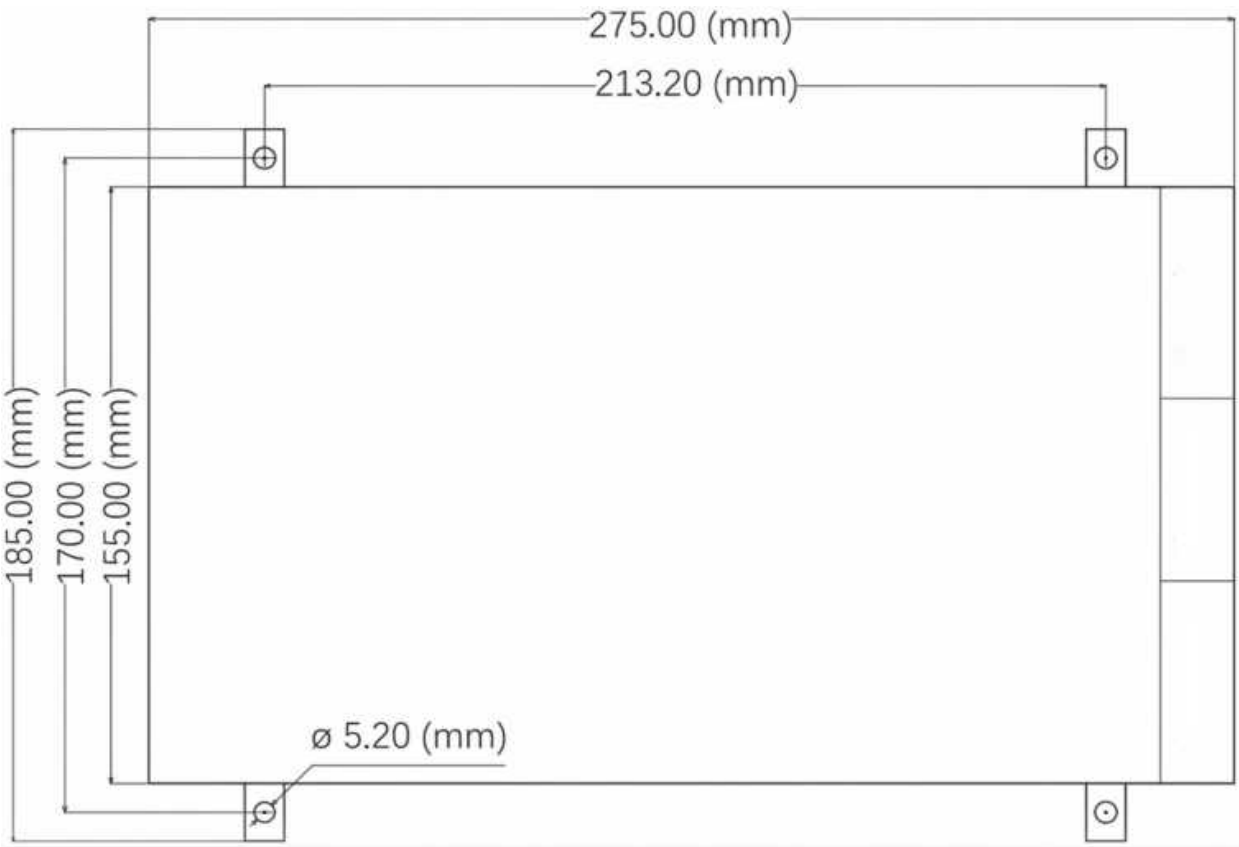
Size:277*155*70mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index								
Model	IPS-SP-1500-12	IPS-SP-1500-24	IPS-SP-1500-36	IPS-SP-1500-48	IPS-SP-1500-72	IPS-SP-1500-96	IPS-SP-1500-110	IPS-SP-1500-150	IPS-SP-1500-220
Output									
DC Voltage	12VDC	24VDC	36VDC	48VDC	72VDC	96VDC	110VDC	150VDC	220VDC
Rated Current	125A	62.5A	41.6A	31.2A	20.8A	15.6A	13.6A	10A	6.8A
Current Range	0 - 125A	0 - 62.5A	0 - 41.6A	0 - 31.2A	0 - 20.8A	0 - 15.6A	0 - 13.6A	0 - 10A	0 - 6.8A
Rated Power	1500W								
Ripple	200 mV	200 mV	260 mV	350 mV	500 mV	600 mV	850 mV	900 mV	1000 mV
Constant Current Optimum Range	6 - 12V	12 - 24V	18 - 36V	24 - 48V	36 - 72V	48 - 96V	55 - 110V	75 - 150V	110 - 220V
Voltage Accuracy	± 1.0%								
Line Regulation	± 1.0%								
Load Regulation	± 1.0%								
Startup & Rise Time	1500 mS , 100 mS /230 VAC (full load)								
Input									
Voltage Range	180 - 264 VAC / 245 - 370 VDC								
Frequency Range	45 Hz - 65 Hz								
Power Factor	PF ≧0.65/230 VAC (at full load)								
Efficiency	85 %	86 %	87 %	89 %	90 %	90 %	90 %	91 %	91 %
AC Current	＜ 13 A								
Leakage Current	＜ 3.0 mA / 240 VAC								
Protection Function									
Short Circuit	Input constant current								
Over Temperature	Shut down the output, automatically recover or restart after the temperature drops								
Output Voltage Adjustment	0 - 13.2V	0 - 26.4V	0 - 39.6V	0 - 52.8V	0 - 79.2V	0 - 105.6V	0 - 121V	0 - 165V	0 - 242V
Output Constant Current Adjustment	0 - 125A	0 - 62.5A	0 - 41.6A	0 - 31.2A	0 - 20.8A	0 - 15.6A	0 - 13.6A	0 - 10A	0 - 6.8A

External Potentiometer	External potentiometer control (voltage, current)
Analog Voltage Control	0 - 5V / 0 - 10V Control (voltage, current)
Auxiliary Power Supply	12V 0.5A
Remote Control Switch	Default power on, high level power off (3V-12V)
Environment	
Operating Temperature	-20 - +60℃
Operating Humidity	-20 - 90% RH No condensation
Storage Temperature And Humidity	-40 - +85℃, 10 - 95% RH No condensation
Vibration Resistance	10 - 500 Hz , 2G 10 Minutes/cycle, X, Y, Z Axis 60 minute
Safety	
Insulation Resistance	Input to output: 100 Mhms /500 VDC /25℃/70% RH
Pressure Resistance	I/PO/P :1.2 KVAC I /P- FG :1.2 KVAC O /P- FG :0.5 KVAC
Others	
Size	277*155*70 mm (L*W*H)
Net Weight	2.4 KG
Remark	
1. All parameters are in 230 VAC Voltage input, rated load and The values are measured at 25°C. 2. Ripple and noise voltage are 20 MHz Bandwidth Oscilloscope Band 1 2 Inch twisted pair ends 0.1 μ and 47 μ Capacitance is measured at 20 MHZ The measurement is performed at bandwidth. 3. Accuracy: includes setting error, line regulation and load regulation. 4. The output needs to be derated in case of low input voltage. Please refer to the static characteristic curve for details. 5. The startup time is measured when the machine is cold. Frequent power on and off may increase the startup time.	

• OVERALL DIMENSION(MM)



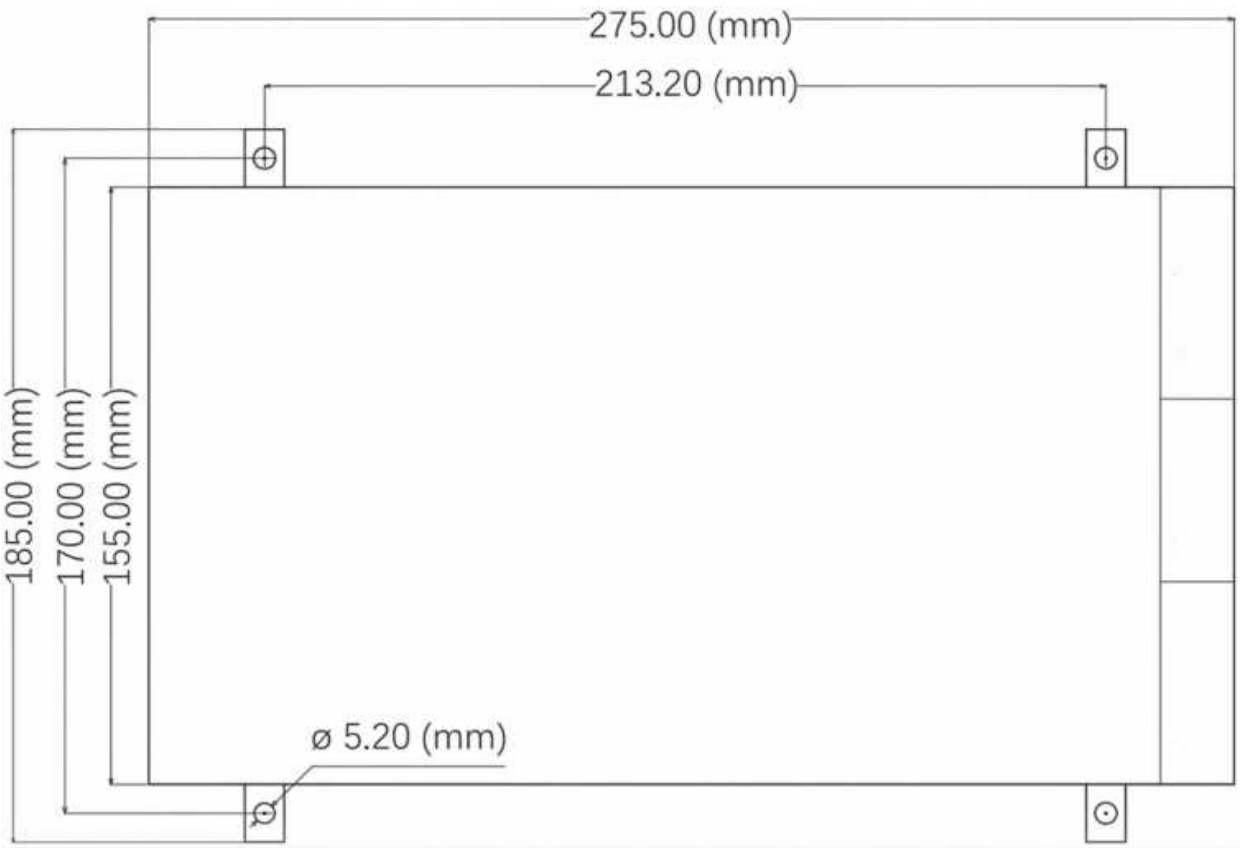
- Voltage input range: 180-264 VAC
- Protection type: short circuit/over current/over temperature Analog voltage control
- Main circuit external switch control
- Size:277*155*70mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index								
Model	IPS-SP-1800-12	IPS-SP-1800-24	IPS-SP-1800-36	IPS-SP-1800-48	IPS-SP-1800-72	IPS-SP-1800-96	IPS-SP-1800-110	IPS-SP-1800-150	IPS-SP-1800-220
Output									
DC Voltage	12VDC	24VDC	36VDC	48VDC	72VDC	96VDC	110VDC	150VDC	220VDC
Rated Current	150A	75A	50A	37.5A	25A	18.7A	16.3A	12A	8.1A
Current Range	0 - 150A	0 - 75A	0 - 50A	0 - 37.5A	0 - 25A	0 - 18.7A	0 - 16.3A	0 - 12A	0 - 8.1A
Rated Power	2000W								
Ripple	200 mV	200 mV	260 mV	350 mV	500 mV	600 mV	850 mV	900 mV	1000 mV
Constant Current Optimum Range	6 - 12V	12 - 24V	18 - 36V	24 - 48V	36 - 72V	48 - 96V	55 - 110V	75 - 150V	110 - 220V
Voltage Accuracy	± 1.0%								
Line Regulation	± 1.0%								
Load Regulation	± 1.0%								
Startup & Rise Time	1500 mS , 100 mS /230 VAC (full load)								
Input									
Voltage Range	180 - 264 VAC / 245 - 370 VDC								
Frequency Range	45 Hz - 65 Hz								
Power Factor	PF ≧0.65/230 VAC (at full load)								
Efficiency	85 %	86 %	87 %	89 %	90 %	90 %	90 %	91 %	91 %
AC Current	＜ 2 0A								
Leakage Current	＜ 3.0 mA / 240 VAC								
Protection Function									
Short Circuit	Input constant current								
Over Temperature	Shut down the output, automatically recover or restart after the temperature drops								
Output Voltage Adjustment	0 - 13.2V	0 - 26.4V	0 - 39.6V	0 - 52.8V	0 - 79.2V	0 - 105.6V	0 - 121V	0 - 165V	0 - 242V
Output Constant Current Adjustment	0 - 150A	0 - 75A	0 - 50A	0 - 37.5A	0 - 25A	0 - 18.7A	0 - 16.3A	0 - 12A	0 - 8.1A

External Potentiometer	External potentiometer control (voltage, current)
Analog Voltage Control	0 - 5V / 0 - 10V Control (voltage, current)
Auxiliary Power Supply	12V 0.5A
Remote Control Switch	Default power on, high level power off (3V-12V)
Environment	
Operating Temperature	-20 - +60℃
Operating Humidity	-20 - 90% RH No condensation
Storage Temperature And Humidity	-40 - +85℃, 10 - 95% RH No condensation
Vibration Resistance	10 - 500 Hz , 2G 10 Minutes/cycle, X, Y, Z Axis 60 minute
Safety	
Insulation Resistance	Input to output: 100 Mhms /500 VDC /25℃/70% RH
Pressure Resistance	I/PO/P :1.2 KVAC I /P- FG :1.2 KVAC O /P- FG :0.5 KVAC
Others	
Size	277*155*70 mm (L*W*H)
Net Weight	2.4 KG
Remark	
1. All parameters are in 230 VAC Voltage input, rated load and The values are measured at 25°C. 2. Ripple and noise voltage are 20 MHz Bandwidth Oscilloscope Band 12 Inch twisted pair ends 0.1 μ and 47 μ Capacitance is measured at 20 MHZ The measurement is performed at bandwidth. 3. Accuracy: includes setting error, line regulation and load regulation. 4. The output needs to be derated in case of low input voltage. Please refer to the static characteristic curve for details. 5. The startup time is measured when the machine is cold. Frequent power on and off may increase the startup time.	

• OVERALL DIMENSION(MM)



IPS-SP-2000W series switching power supply

Voltage input range: 180-264 VAC

Protection type: short circuit/over current/over temperature Analog voltage control

Main circuit external switch control

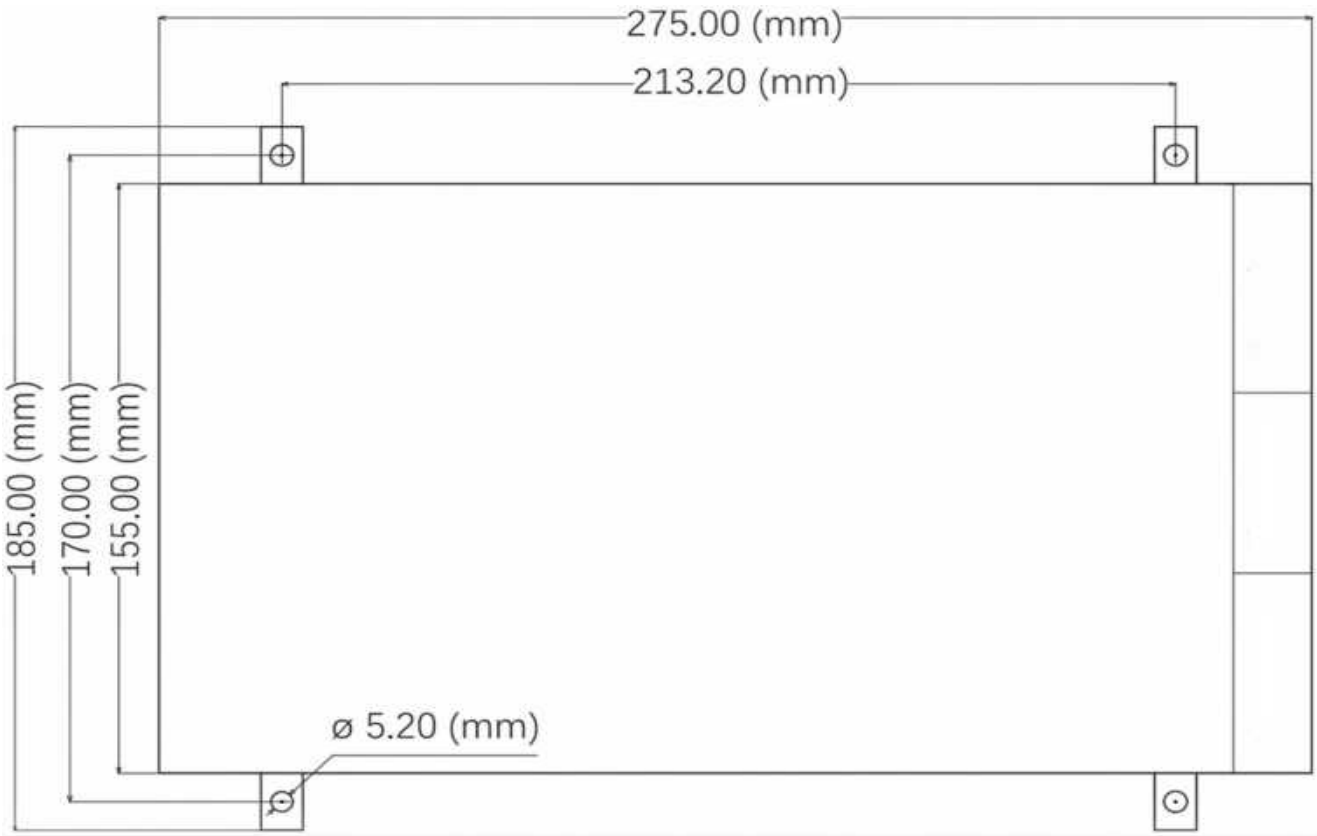
Size:277*155*70mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index								
Model	IPS-SP-2000-12	IPS-SP-2000-24	IPS-SP-2000-36	IPS-SP-2000-48	IPS-SP-2000-72	IPS-SP-2000-96	IPS-SP-2000-110	IPS-SP-2000-150	IPS-SP-2000-220
Output									
DC Voltage	12VDC	24VDC	36VDC	48VDC	72VDC	96VDC	110VDC	150VDC	220VDC
Rated Current	166A	83.3A	55.5A	41.6A	27.7A	20.8A	18.1A	13.3A	9A
Current Range	0 - 166A	0 - 83.3A	0 - 55.5A	0 - 41.6A	0 - 27.7A	0 - 20.8A	0 - 18.1A	0 - 13.3A	0 - 9A
Rated Power	2000W								
Ripple	200 mV	200 mV	260 mV	350 mV	500 mV	600 mV	850 mV	900 mV	1000 mV
Constant Current Optimum Range	6 - 12V	12 - 24V	18 - 36V	24 - 48V	36 - 72V	48 - 96V	55 - 110V	75 - 150V	110 - 220V
Voltage Accuracy	±1.0%								
Line Regulation	±1.0%								
Load Regulation	±1.0%								
Startup & Rise Time	1500 mS , 100 mS /230 VAC (full load)								
Input									
Voltage Range	180 - 264 VAC / 245 - 370 VDC								
Frequency Range	45 Hz - 65 Hz								
Power Factor	PF ≧0.65/230 VAC (at full load)								
Efficiency	85 %	86 %	87 %	89 %	90 %	90 %	90 %	91 %	91 %
AC Current	＜ 2 0A								
Leakage Current	＜ 3.0 mA / 240 VAC								
Protection Function									
Short Circuit	Input constant current								
Over Temperature	Shut down the output, automatically recover or restart after the temperature drops								
Output Voltage Adjustment	0 - 13.2V	0 - 26.4V	0 - 39.6V	0 - 52.8V	0 - 79.2V	0 - 105.6V	0 - 121V	0 - 165V	0 - 242V
Output Constant Current Adjustment	0 - 166A	0 - 83.3A	0 - 55.5A	0 - 41.6A	0 - 27.7A	0 - 20.8A	0 - 18.1A	0 - 13.3A	0 - 9A

External Potentiometer	External potentiometer control (voltage, current)
Analog Voltage Control	0 - 5V / 0 - 10V Control (voltage, current)
Auxiliary Power Supply	12V 0.5A
Remote Control Switch	Default power on, high level power off (3V-12V)
Environment	
Operating Temperature	-20 - +60℃
Operating Humidity	-20 - 90% RH No condensation
Storage Temperature And Humidity	-40 - +85℃, 10 - 95% RH No condensation
Vibration Resistance	10 - 500 Hz , 2G 10 Minutes/cycle, X, Y, Z Axis 60 minute
Safety	
Insulation Resistance	Input to output: 100 Mhms /500 VDC /25℃/70% RH
Pressure Resistance	I/PO/P :1.2 KVAC I /P- FG :1.2 KVAC O /P- FG :0.5 KVAC
Others	
Size	277*155*70 mm (L*W*H)
Net Weight	2.6 KG
Remark	
1. All parameters are in 230 VAC Voltage input, rated load and The values are measured at 25°C. 2. Ripple and noise voltage are 20 MHz Bandwidth Oscilloscope Band 1 2 Inch twisted pair ends 0.1 μ and 47 μ Capacitance is measured at 20 MHZ The measurement is performed at bandwidth. 3. Accuracy: includes setting error, line regulation and load regulation. 4. The output needs to be derated in case of low input voltage. Please refer to the static characteristic curve for details. 5. The startup time is measured when the machine is cold. Frequent power on and off may increase the startup time.	

• OVERALL DIMENSION(MM)



IPS-SP-2000W series switching power supply

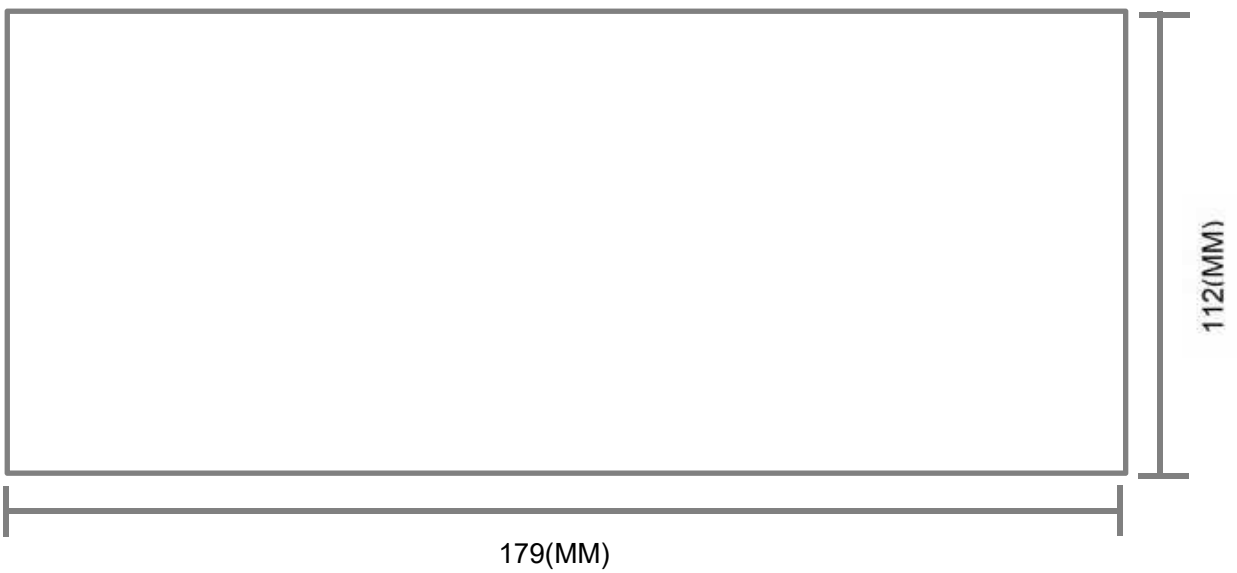
Over voltage/Under Voltage/Overload/
Over temperature/Fan stop protection

Size:246*146*67mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index													
Model	IPS-SP-2000-12	IPS-SP-2000-24	IPS-SP-2000-48	IPS-SP-2000-60	IPS-SP-2000-100	IPS-SP-2000-150	IPS-SP-2000-200	IPS-SP-2000-300	IPS-SP-2000-400	IPS-SP-2000-500	IPS-SP-2000-600	IPS-SP-2000-800	IPS-SP-2000-900	IPS-SP-2000-1000
Output Parameters														
DC Output Voltage	12VDC	24VDC	48VDC	60VDC	100VDC	150VDC	200VDC	300VDC	400VDC	500VDC	600VDC	800VDC	900VDC	1000VDC
Rated Output Current	166.6A	83.3A	41.67A	33.34A	20A	13.34A	10A	6.66A	5A	4A	3.34A	3.75A	2.22A	2A
Rated Output Power	2000W	2000W	2000W	2000W	2000W	2000W	2000W	2000W	2000W	2000W	2000W	2000W	2000W	2000W
Input Parameters														
Input Voltage	95-264Vac													
Input Frequency	50/60HZ													
Others														
Working Temperature	-25-50℃													
Size	Length 246mm * width 146mm * height 67mm													
Weight	2.18kg (excluding package and accessories)													
Installation Hole Position	Length spacing: 228mm Width spacing: 158mm Use matching mounting brackets (can only be installed parallel, not side mounted)													

● OVERALL DIMENSION(MM)



IPS-SP-3000W series switching power supply

Voltage input range: 180-264 VAC

Protection type: short circuit/over current/over temperature Analog voltage control

Main circuit external switch control

Size:285*185*70mm(L*W*H)

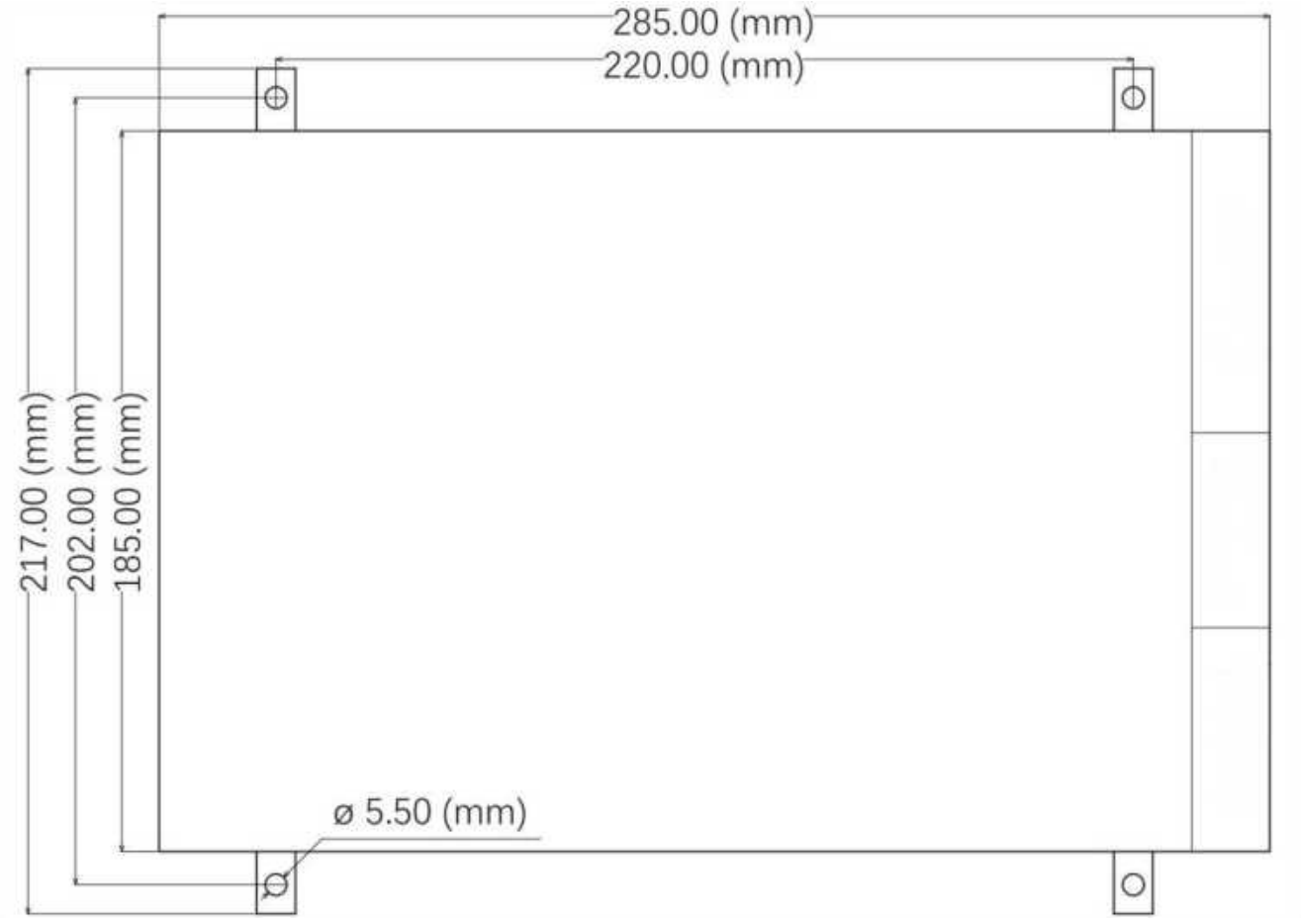
●TECHNICAL PARAMETERS

Technical Performance	Technical Index								
Model	IPS-SP - 3000-12	IPS-SP - 3000-24	IPS-SP - 3000-36	IPS-SP - 3000-48	IPS-SP - 3000-72	IPS-SP - 3000-96	IPS-SP - 3000-110	IPS-SP - 3000-150	IPS-SP - 3000-220
Output									
DC Voltage	12VDC	24VDC	36VDC	48VDC	72VDC	96VDC	110VDC	150VDC	220VDC
Rated Current	250A	125A	83.3A	62.5A	41.7A	31.3A	27.3A	20A	13.6A
Current Range	0 - 250A	0 - 125A	0 - 83.3A	0 - 62.5A	0 - 41.7A	0 - 31.3A	0 - 27.3A	0 - 20A	0 - 13.6A
Rated Power	3000W								
Ripple	200 mV	200 mV	260 mV	350 mV	500 mV	600 mV	850 mV	900 mV	1000 mV
Constant Current Optimum Range	6 - 12V	12 - 24V	18 - 36V	24r - 48V	36 - 72V	48 - 96V	55 - 110V	75 - 150V	110 - 220V
Voltage Accuracy	±1.0%								
Line Regulation	±1.0%								
Load Regulation	±1.0%								
Startup & Rise Time	1500 mS , 100 mS /230 VAC (full load)								
Input									
Voltage Range	180 - 264 VAC / 245 - 370 VDC								
Frequency Range	45 Hz - 65 Hz								
Power Factor	PF ≧0.65/230 VAC (at full load)								
Efficiency	85 %	86 %	87 %	89 %	90 %	90 %	90 %	91 %	91 %
AC Current	＜ 30A								
Leakage Current	＜ 3.0 mA / 240 VAC								
Protection Function									
Short Circuit	Input constant current								
Over Temperature	Shut down the output, automatically recover or restart after the temperature drops								
Output Voltage Adjustment	0 - 13.2V	0 - 26.4V	0 - 39.6V	0 - 52.8V	0 - 79.2V	0 - 105.6V	0 - 121V	0 - 165V	0 - 242V
Output Constant Current Adjustment	0 - 250A	0 - 125A	0 - 83.3A	0 - 62.5A	0 - 41.7A	0 - 31.3A	0 - 27.3A	0 - 20A	0 - 13.6A

External Potentiometer	External potentiometer control (voltage, current)
Analog Voltage Control	0 - 5V / 0 - 10V Control (voltage, current)
Auxiliary Power Supply	12V 0.5A
Remote Control Switch	Default power on, high level power off (3V-12V)
Environment	
Operating Temperature	-20 - +60℃
Operating Humidity	-20 - 90% RH No condensation
Storage Temperature And Humidity	-40 - +85℃, 10 - 95% RH No condensation
Vibration Resistance	10 - 500 Hz , 2G 10 Minutes/cycle, X, Y, Z Axis 60 minute
Safety	
Insulation Resistance	Input to output: 100 Mhms /500 VDC /25℃/70% RH
Pressure Resistance	I/PO/P :1.2 KVAC I /P- FG :1.2 KVAC O /P- FG :0.5 KVAC
Others	
Size	285*185*70 mm (L*W*H)
Net Weight	3.75 KG
Remark	

1. All parameters are in 230 VAC Voltage input, rated load and The values are measured at 25°C.
2. Ripple and noise voltage are 20 MHz Bandwidth Oscilloscope Band 12 Inch twisted pair ends 0.1 μ and 47 μ Capacitance is measured at 20 MHZ The measurement is performed at bandwidth.
3. Accuracy: includes setting error, line regulation and load regulation.
4. The output needs to be derated in case of low input voltage. Please refer to the static characteristic curve for details.
5. The startup time is measured when the machine is cold. Frequent power on and off may increase the startup time.

• OVERALL DIMENSION(MM)



IPS-SP-4000W series switching power supply

Voltage input range: 180-264 VAC

Protection type: short circuit/over current/over temperature Analog voltage control

Main circuit external switch control

Size:300*200*70mm(L*W*H)

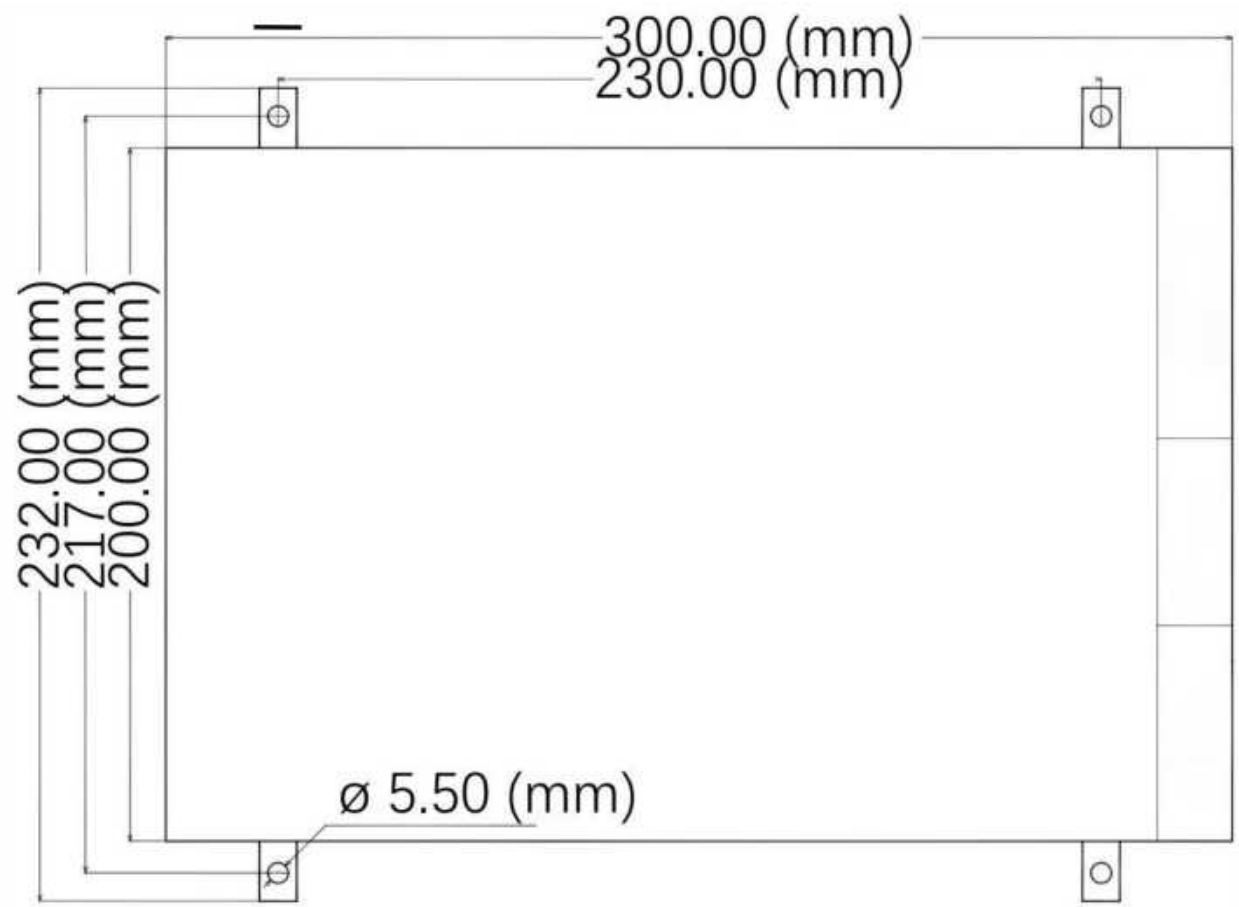
●TECHNICAL PARAMETERS

Technical Performance	Technical Index								
Model	IPS-SP-4000-12	IPS-SP-4000-24	IPS-SP-4000-36	IPS-SP-4000-48	IPS-SP-4000-72	IPS-SP-4000-96	IPS-SP-4000-110	IPS-SP-4000-150	IPS-SP-4000-220
Output									
DC Voltage	12VDC	24VDC	36VDC	48VDC	72VDC	96VDC	110VDC	150VDC	220VDC
Rated Current	290A	166.7A	111A	83.3A	55.6A	41.7A	36.4A	26.7A	18.2A
Current Range	0 - 290A	0 - 166.7A	0 - 111A	0 - 83.3A	0 - 55.6A	0 - 41.7A	0 - 36.4A	0 - 26.7A	0 - 18.2A
Rated Power	3500W	4000W							
Ripple	250 mV	270 mV	300 mV	400 mV	500 mV	600 mV	850 mV	900 mV	1000 mV
Constant Current Optimum Range	6 - 12V	12 - 24V	18 - 36V	24 - 48V	36 - 72V	48 - 96V	55 - 110V	75 - 150V	110 - 220V
Voltage Accuracy	± 1.0%								
Line Regulation	± 1.0%								
Load Regulation	± 1.0%								
Startup & Rise Time	1500 mS , 100 mS /230 VAC (full load)								
Input									
Voltage Range	180 - 264 VAC / 245 - 370 VDC								
Frequency Range	45 Hz - 65 Hz								
Power Factor	PF ≧0.65/230 VAC (at full load)								
Efficiency	83 %	86 %	87 %	89 %	90 %	90 %	90 %	91 %	91 %
AC Current	＜ 30A								
Leakage Current	＜ 3.0 mA / 240 VAC								
Protection Function									
Short Circuit	Input constant current								
Over Temperature	Shut down the output, automatically recover or restart after the temperature drops								
Output Voltage Adjustment	0 - 13.2V	0 - 26.4V	0 - 39.6V	0 - 52.8V	0 - 79.2V	0 - 105.6V	0 - 121V	0 - 165V	0 - 242V
Output Constant Current Adjustment	0 - 290A	0 - 166.7A	0 - 111A	0 - 83.3A	0 - 55.6A	0 - 41.7A	0 - 36.4A	0 - 26.7A	0 - 18.2A

External Potentiometer	External potentiometer control (voltage, current)
Analog Voltage Control	0 - 5V / 0 - 10V Control (voltage, current)
Auxiliary Power Supply	12V 0.5A
Remote Control Switch	Default power on, high level power off (3V-12V)
Environment	
Operating Temperature	-20 - +60℃
Operating Humidity	-20 - 90% RH No condensation
Storage Temperature And Humidity	-40 - +85℃, 10 - 95% RH No condensation
Vibration Resistance	10 - 500 Hz , 2G 10 Minutes/cycle, X, Y, Z Axis 60 minute
Safety	
Insulation Resistance	Input to output: 100 Mhms /500 VDC /25℃/70% RH
Pressure Resistance	I/PO/P :1.2 KVAC I /P- FG :1.2 KVAC O /P- FG :0.5 KVAC
Others	
Size	300*200*70 mm (L*W*H)
Net Weight	4.1 KG
Remark	

1. All parameters are in 230 VAC Voltage input, rated load and The values are measured at 25°C.
2. Ripple and noise voltage are 20 MHz Bandwidth Oscilloscope Band 12 Inch twisted pair ends 0.1 μ and 47 μ Capacitance is measured at 20 MHZ The measurement is performed at bandwidth.
3. Accuracy: includes setting error, line regulation and load regulation.
4. The output needs to be derated in case of low input voltage. Please refer to the static characteristic curve for details.
5. The startup time is measured when the machine is cold. Frequent power on and off may increase the startup time.

• OVERALL DIMENSION(MM)



IPS-SP-5000W series switching power supply

Voltage input range: 180-264 VAC

Protection type: short circuit/over current/over temperature Analog voltage control

Main circuit external switch control

Size:356*216*80mm(L*W*H)

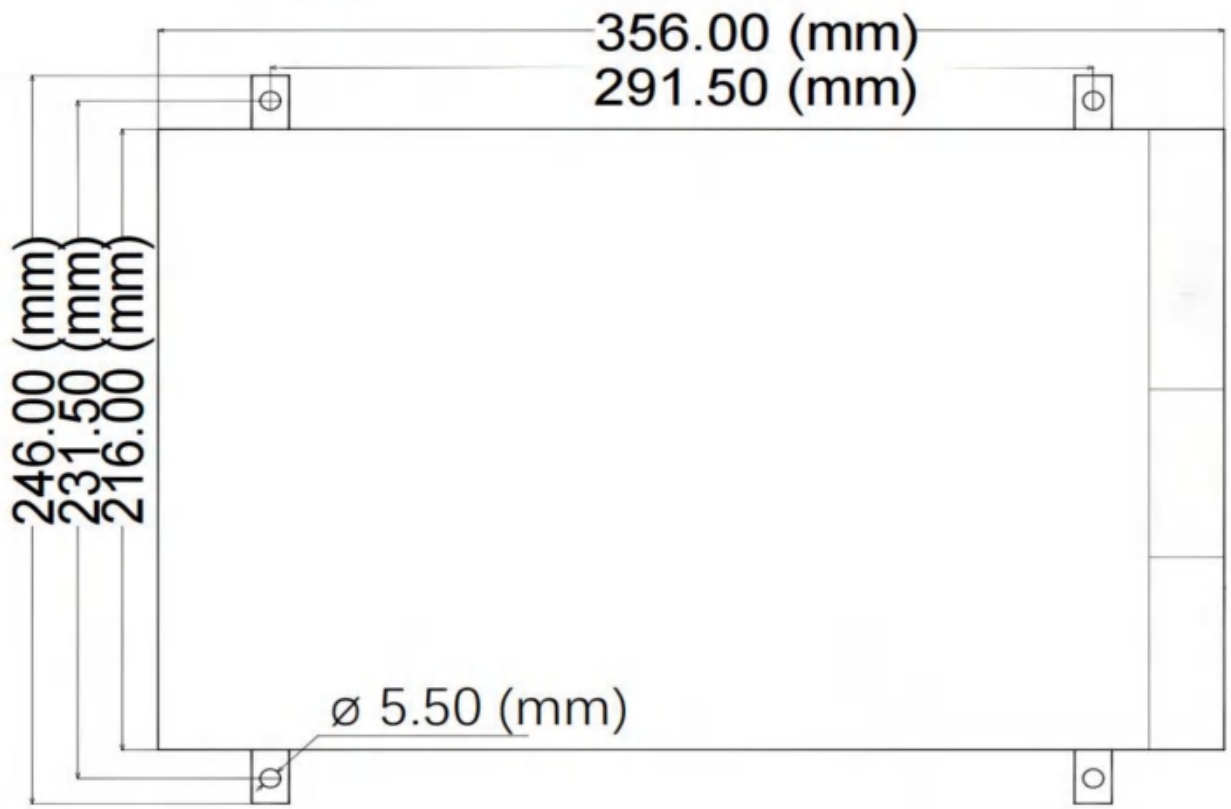
●TECHNICAL PARAMETERS

Technical Performance	Technical Index								
Model	IPS-SP-5000-12	IPS-SP-5000-24	IPS-SP-5000-36	IPS-SP-5000-48	IPS-SP-5000-72	IPS-SP-5000-96	IPS-SP-5000-110	IPS-SP-5000-150	IPS-SP-5000-220
Output									
DC Voltage	12VDC	24VDC	36VDC	48VC	72VC	96VC	110VDC	150VC	220VDC
Rated Current	333A	208A	138.8A	104A	69A	52A	45A	33A	22.7A
Current Range	0~333A	0~208A	0~138.8A	0~104A	0~69A	0~52A	0~45A	0~33A	0~22.7A
Rated Power	4000W	5000W							
Ripple	250 mV	270 mV	300 mV	400 mV	500 mV	600 mV	850 mV	900 mV	1000 mV
Constant Current Optimum Range	6-12V	12-24V	18-36V	24-48V	36-72V	48-96V	55-110V	75-150V	110-220V
Voltage Accuracy	± 1.0%								
Line Regulation	± 1.0%								
Load Regulation	± 1.0%								
Startup & Rise Time	1500 mS , 100 mS /230 VAC (full load)								
Input									
Voltage Range	180 - 264 VAC / 245 - 370 VDC								
Frequency Range	45 Hz - 65 Hz								
Power Factor	PF ≧0.6/230 VAC (at full load)								
Efficiency	83 %	86 %	87 %	89 %	90 %	90 %	90 %	91 %	91 %
AC Current	＜ 55A								
Leakage Current	＜ 3.0 mA / 240 VAC								
Protection Function									
Short Circuit	Input constant current								
Over Temperature	Shut down the output, automatically recover or restart after the temperature drops								
Output Voltage Adjustment	0~13.2V	0~26.4V	0~39.6V	0~52.8V	0~79.2V	0~105.6V	0~121V	0~165V	0~242V
Output Constant Current Adjustment	0~333A	0~208A	0~138.8A	0~104A	0~69A	0~52A	0~45A	0~33A	0~22.7A

External Potentiometer	External potentiometer control (voltage, current)
Analog Voltage Control	0 - 5V / 0 - 10V Control (voltage, current)
Auxiliary Power Supply	12V 0.5A
Remote Control Switch	Default power on, high level power off (3V-12V)
Environment	
Operating Temperature	-20 - +60℃
Operating Humidity	-20 - 90% RH No condensation
Storage Temperature And Humidity	-40 - +85℃, 10 - 95% RH No condensation
Vibration Resistance	10 - 500 Hz , 2G 10 Minutes/cycle, X, Y, Z Axis 60 minute
Safety	
Insulation Resistance	Input to output: 100 Mhms /500 VDC /25℃/70% RH
Pressure Resistance	I/PO/P :1.2 KVAC I /P- FG :1.2 KVAC O /P- FG :0.5 KVAC
Others	
Size	356*216*80 mm (L*W*H)
Net Weight	6.5 KG
Remark	

1. All parameters are in 230 VAC Voltage input, rated load and The values are measured at 25°C.
2. Ripple and noise voltage are 20 MHz Bandwidth Oscilloscope Band 12 Inch twisted pair ends 0.1 μ and 47 μ Capacitance is measured at 20 MHZ The measurement is performed at bandwidth.
3. Accuracy: includes setting error, line regulation and load regulation.
4. The output needs to be derated in case of low input voltage. Please refer to the static characteristic curve for details.
5. The startup time is measured when the machine is cold. Frequent power on and off may increase the startup time. time.

• OVERALL DIMENSION(MM)



IPS-SP-6000W series switching power supply

Voltage input range: 180-264 VAC

Protection type: short circuit/over current/over temperature Analog voltage control

Main circuit external switch control

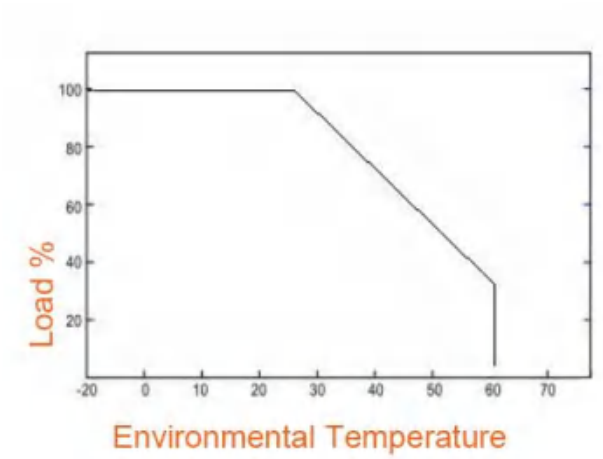
Size:340.5*188.8*148.2mm(L*W*H)

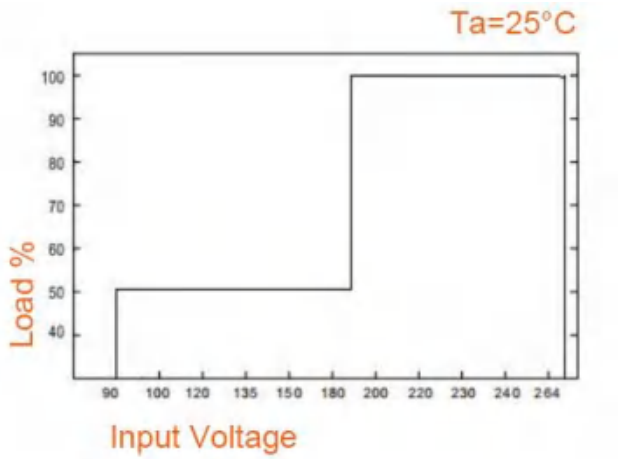
●TECHNICAL PARAMETERS

Technical Performance	Technical Index							
Model	IPS-SP-6000-24	IPS-SP-6000-36	IPS-SP-6000-48	IPS-SP-6000-72	IPS-SP-6000-96	IPS-SP-6000-110	IPS-SP-6000-150	IPS-SP-6000-220
Output								
DC Voltage	24VDC	36VDC	48VDC	72VDC	96VDC	110VC	150VDC	220VDC
Rated Current	225A	150A	112A	75A	57A	49A	36A	25A
Current Range	0 - 225A	0 - 150A	0 - 112A	0 - 75A	0 - 57A	0 - 49A	0 - 36A	0 - 25A
Rated Power	5000W							
Ripple	380 mV	450 mV	500 mV	500 mV	600 mV	850 mV	900 mV	1000 mV
Constant Current Optimum Range	12 - 24V	18 - 36V	24 - 48V	36 - 72V	48 - 96V	55 - 110V	75 - 150V	110 - 220V
Voltage Accuracy	± 1.0%							
Line Regulation	± 1.0%							
Load Regulation	± 1.0%							
Startup & Rise Time	1500 mS , 100 mS /230 VAC (full load)							
Input								
Voltage Range	180 - 264 VAC / 245 - 370 VDC							
Frequency Range	45 Hz - 65 Hz							
Power Factor	PF ≧0.6/230 VAC (at full load)							
Efficiency	86 %	87 %	89 %	90 %	90 %	90 %	91 %	91 %
AC Current	＜ 53A							
Leakage Current	＜ 3.0 mA / 240 VAC							
Protection Function								
Short Circuit	Input constant current							
Over Temperature	Shut down the output, automatically recover or restart after the temperature drops							
Output Voltage Adjustment	0 - 26.4V	0 - 39.6V	0 - 52.8V	0 - 79.2V	0 - 105.6V	0 - 121V	0 - 165V	0 - 242V
Output Constant Current Adjustment	0 - 225A	0 - 150A	0 - 112A	0 - 75A	0 - 57A	0 - 49A	0 - 36A	0 - 25A

External Potentiometer	External potentiometer control (voltage, current) can be customized
Voltage And Current Adjustable	By Knob
Remote Control Switch	Default power on, high level power off (3V-12V) customizable
External Potentiometer	External potentiometer control (voltage, current) can be customized
Environment	
Operating Temperature	-20 - +60℃
Operating Humidity	-20 - 90% RH No condensation
Storage Temperature And Humidity	-40 - +85℃, 10 - 95% RH No condensation
Vibration Resistance	10 - 500 Hz , 2G 10 Minutes/cycle, X, Y, Z Axis 60 minute
Safety	
Insulation Resistance	Input to output: 100 Mhms /500 VDC /25℃/70% RH
Pressure Resistance	I/PO/P :1.2 KVAC I /P- FG :1.2 KVAC O /P- FG :0.5 KVAC
Others	
Size	340.5*188.8*148.2 mm (L*W *H)
Net Weight	5 KG
Remark	
1. All parameters are in 230 VAC Voltage input, rated load and The values are measured at 25°C. 2. Ripple and noise voltage are 20 MHz Bandwidth Oscilloscope Band 12 Inch twisted pair ends 0.1 μ and 47 μ Capacitance is measured at 20 MHZ The measurement is performed at bandwidth. 3. Accuracy: includes setting error, line regulation and load regulation. 4. The output needs to be derated in case of low input voltage. Please refer to the static characteristic curve for details. 5. The startup time is measured when the machine is cold. Frequent power on and off may increase the startup time.	

• STATIC CHARACTERISTIC CURVE





IPS-SP-7000W series switching power supply

Voltage input range: 180-264 VAC

Protection type: short circuit/over current/over temperature Analog voltage control

Main circuit external switch control

Size:351*210.8*148.5mm(L*W*H)

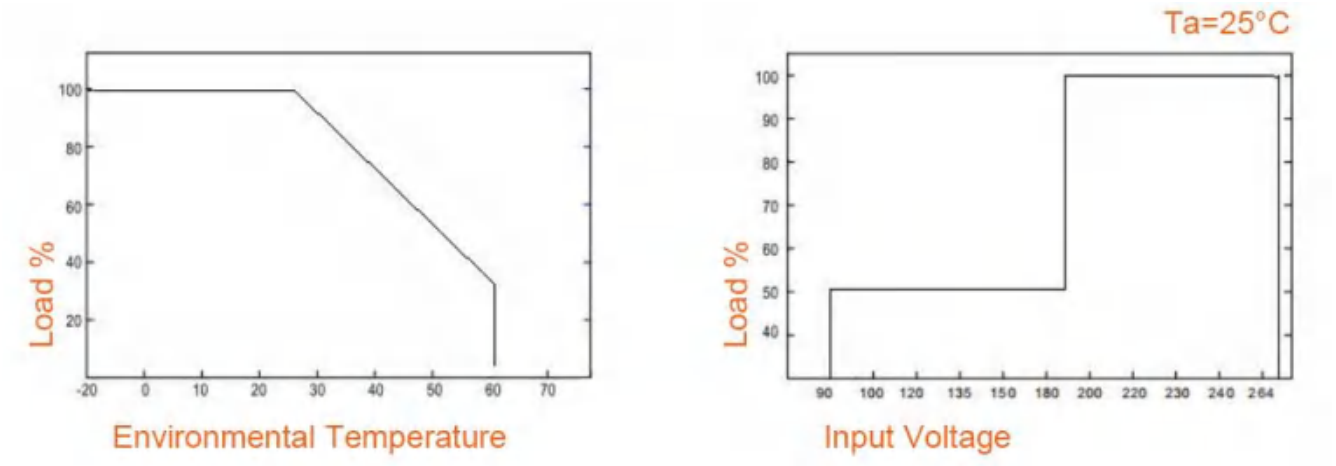
●TECHNICAL PARAMETERS

Technical Performance	Technical Index								
Model	IPS-SP-7000-24	IPS-SP-7000-36	IPS-SP-7000-48	IPS-SP-7000-60	IPS-SP-7000-72	IPS-SP-7000-96	IPS-SP-7000-110	IPS-SP-7000-150	IPS-SP-7000-220
Output									
DC Voltage	24VDC	36VDC	48VDC	60VDC	72VDC	96VDC	110VDC	150VDC	220VDC
Rated Current	262A	194A	145A	116A	97A	73A	63A	46A	31A
Current Range	0 - 262A	0 - 194A	0 - 145A	0-116A	0 - 97A	0 - 73A	0 - 63A	0 - 46A	0 - 31A
Rated Power	7000W								
Ripple	380 mV	450 mV	500 mV	500 mV	500 mV	600 mV	850 mV	900 mV	1000 mV
Constant Current Optimum Range	12 - 24V	18 - 36V	24 - 48V	30-60V	36 - 72V	48 - 96V	55 - 110V	75 - 150V	110 - 220V
Voltage Accuracy	±1.0%								
Line Regulation	±1.0%								
Load Regulation	±1.0%								
Startup & Rise Time	1500 mS , 100 mS /230 VAC (full load)								
Input									
Voltage Range	180 - 264 VAC / 245 - 370 VDC								
Frequency Range	45 Hz - 65 Hz								
Power Factor	PF ≧0.6/230 VAC (at full load)								
Efficiency	86 %	87 %	89 %	90 %	90 %	90 %	90 %	91 %	91 %
AC Current	＜ 55A								
Leakage Current	＜ 3.0 mA / 240 VAC								
Protection Function									
Short Circuit	Input constant current								
Over Temperature	Shut down the output, automatically recover or restart after the temperature drops								
Output Voltage Adjustment	0 - 26.4V	0 - 39.6V	0 - 52.8V	0 - 66	0 - 79.2V	0 - 105.6V	0 - 121V	0 - 165V	0 - 242V
Output Constant Current Adjustment	0 - 262A	0 - 194A	0 - 145A	0 - 116A	0 - 97A	0 - 73A	0 - 63A	0 - 46A	0 - 31A

External Potentiometer	External potentiometer control (voltage, current) (customizable)
Analog Voltage Control	Adjust by knob
Auxiliary Power Supply	Voltage, current (customizable)
Remote Control Switch	Default power on, high level power off (3V-12V), customizable
Environment	
Operating Temperature	-20 - +60℃
Operating Humidity	-20 - 90% RH No condensation
Storage Temperature And Humidity	-40 - +85℃, 10 - 95% RH No condensation
Vibration Resistance	10 - 500 Hz , 2G 10 Minutes/cycle, X, Y, Z Axis 60 minute
Safety	
Insulation Resistance	Input to output: 100 Mhms /500 VDC /25℃/70% RH
Pressure Resistance	I/PO/P :1.2 KVAC I /P- FG :1.2 KVAC O /P- FG :0.5 KVAC
Others	
Size	351*210.8*148.5mm (L*W* H)
Net Weight	8.5 KG
Remark	

1. All parameters are in 230 VAC Voltage input, rated load and The values are measured at 25°C.
2. Ripple and noise voltage are 20 MHz Bandwidth Oscilloscope Band 12 Inch twisted pair ends 0.1 μ and 47 μ Capacitance is measured at 20 MHZ The measurement is performed at bandwidth.
3. Accuracy: includes setting error, line regulation and load regulation.
4. The output needs to be derated in case of low input voltage. Please refer to the static characteristic curve for details.
5. The startup time is measured when the machine is cold. Frequent power on and off may increase the startup time. time.

• STATIC CHARACTERISTIC CURVE



IPS-SP-8000W series switching power supply

Voltage input range: 180-264 VAC

Protection type: short circuit/over current/over temperature Analog voltage control

Main circuit external switch control

Size:351*210.8*148.5mm(L*W*H)

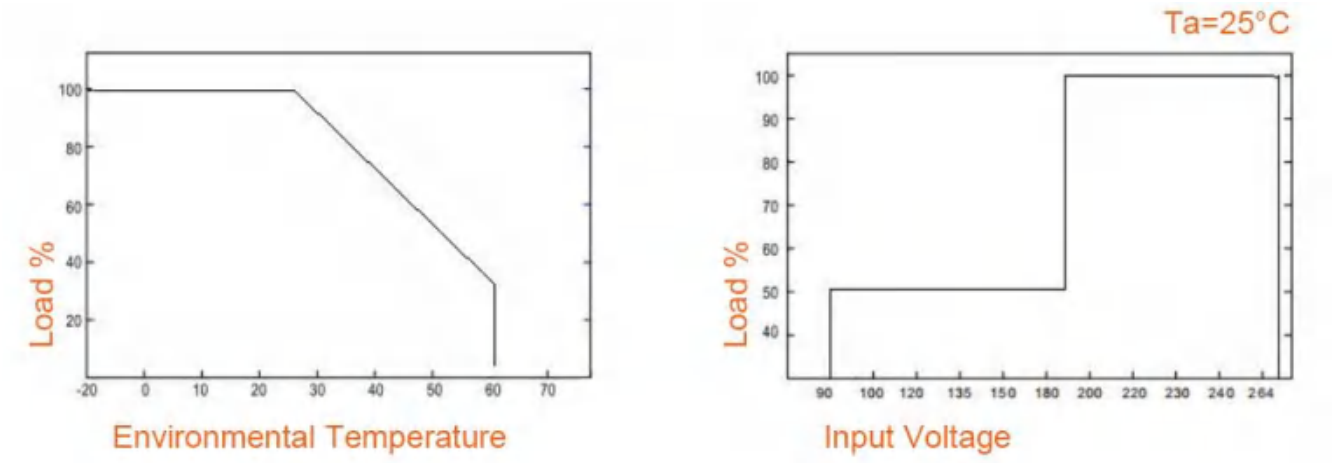
●TECHNICAL PARAMETERS

Technical Performance	Technical Index								
Model	IPS-SP - 8000-24	IPS-SP - 8000-36	IPS-SP - 8000-48	IPS-SP - 8000-60	IPS-SP - 8000-72	IPS-SP - 8000-96	IPS-SP - 8000-110	IPS-SP - 8000-150	IPS-SP - 8000-220
Output									
DC Voltage	24VDC	36VDC	48VDC	60VC	72VDC	96VDC	110VDC	150VDC	220VDC
Rated Current	285A	200A	150A	120A	100A	75A	65A	48A	33A
Current Range	0 - 285A	0 - 200A	0 - 150A	0-120A	0 - 100A	0 - 75A	0 - 65A	0 - 48A	0 - 33A
Rated Power	7200W								
Ripple	380 mV	450 mV	500 mV	500 mV	500 mV	600 mV	850 mV	900 mV	1000 mV
Constant Current Optimum Range	12 - 24V	18 - 36V	24r - 48V	30-60V	36 - 72V	48 - 96V	55 - 110V	75 - 150V	110 - 220V
Voltage Accuracy	± 1.0%								
Line Regulation	± 1.0%								
Load Regulation	± 1.0%								
Startup & Rise Time	1500 mS , 100 mS /230 VAC (full load)								
Input									
Voltage Range	180 - 264 VAC / 245 - 370 VDC								
Frequency Range	45 Hz - 65 Hz								
Power Factor	PF ≧0.6/230 VAC (at full load)								
Efficiency	86 %	87 %	89 %	90 %	90 %	90 %	90 %	91 %	91 %
AC Current	＜ 55A								
Leakage Current	＜ 3.0 mA / 240 VAC								
Protection Function									
Short Circuit	Input constant current								
Over Temperature	Shut down the output, automatically recover or restart after the temperature drops								
Output Voltage Adjustment	0 - 26.4V	0 - 39.6V	0 - 52.8V	0 - 66	0 - 79.2V	0 - 105.6V	0 - 121V	0 - 165V	0 - 242V
Output Constant Current Adjustment	0 - 285A	0 - 200A	0 - 150A	0 - 120A	0 - 100A	0 - 75A	0 - 65A	0 - 48A	0 - 33A

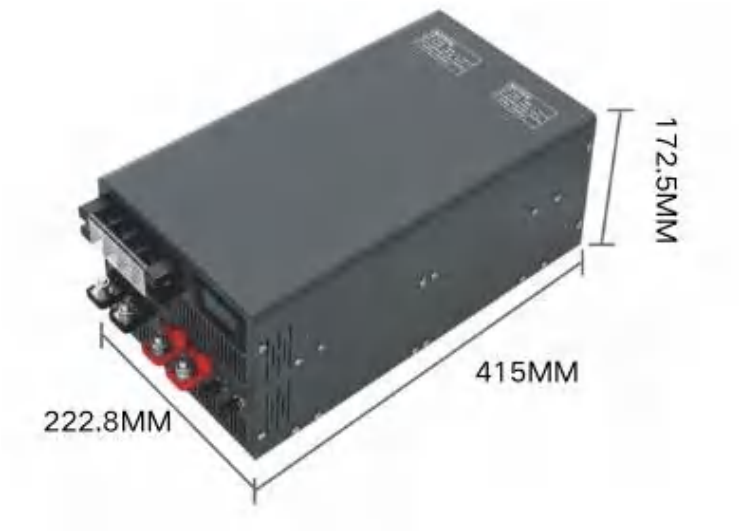
External Potentiometer	External potentiometer control (voltage, current) (customizable)
Analog Voltage Control	Adjust by knob
Auxiliary Power Supply	Voltage, current (customizable)
Remote Control Switch	Default power on, high level power off (3V-12V), customizable
Environment	
Operating Temperature	-20 - +60℃
Operating Humidity	-20 - 90% RH No condensation
Storage Temperature And Humidity	-40 - +85℃, 10 - 95% RH No condensation
Vibration Resistance	10 - 500 Hz , 2G 10 Minutes/cycle, X, Y, Z Axis 60 minute
Safety	
Insulation Resistance	Input to output: 100 Mhms /500 VDC /25℃/70% RH
Pressure Resistance	I/PO/P :1.2 KVAC I /P- FG :1.2 KVAC O /P- FG :0.5 KVAC
Others	
Size	351*210.8*148.5mm (L*W* H)
Net Weight	8.5 KG
Remark	

1. All parameters are in 230 VAC Voltage input, rated load and The values are measured at 25°C.
2. Ripple and noise voltage are 20 MHz Bandwidth Oscilloscope Band 12 Inch twisted pair ends 0.1 μ and 47 μ Capacitance is measured at 20 MHZ The measurement is performed at bandwidth.
3. Accuracy: includes setting error, line regulation and load regulation.
4. The output needs to be derated in case of low input voltage. Please refer to the static characteristic curve for details.
5. The startup time is measured when the machine is cold. Frequent power on and off may increase the startup time.

• STATIC CHARACTERISTIC CURVE



IPS-SP-10000W series switching power supply



Voltage input range: 180-264 VAC

Protection type: short circuit/over current/over temperature Analog voltage control

Main circuit external switch control

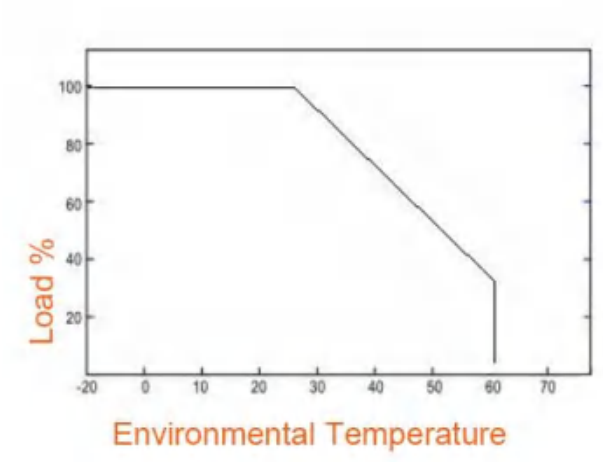
Size:415*222.8*172mm(L*W*H)

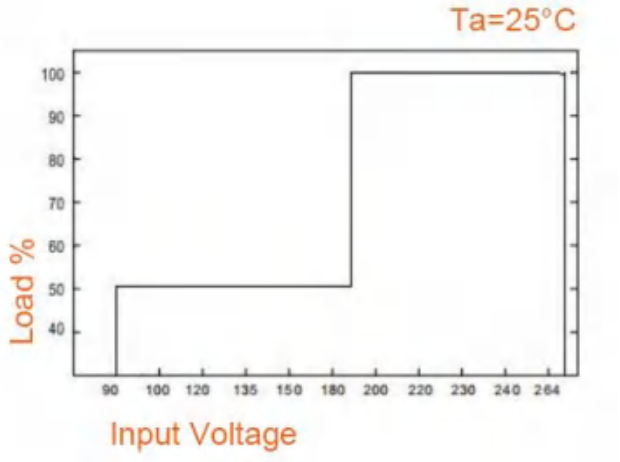
●TECHNICAL PARAMETERS

Technical Performance	Technical Index								
Model	IPS-SP-10000-24	IPS-SP-10000-36	IPS-SP-10000-48	IPS-SP-10000-60	IPS-SP-10000-72	IPS-SP-10000-96	IPS-SP-10000-108	IPS-SP-10000-150	IPS-SP-10000-220
Output									
DC Voltage	24VDC	36VDC	48VDC	60VDC	72VDC	96VDC	108VDC	150VDC	220VDC
Rated Current	355A	250A	188A	150A	125A	94A	83A	60A	41A
Current Range	0 - 355A	0 - 250A	0 - 188A	0 - 150A	0 - 125A	0 - 94A	0 - 83A	0 - 60A	0 - 41A
Rated Power	10000W								
Ripple	380 mV	450 mV	500 mV	500 mV	500 mV	600 mV	850 mV	900 mV	1000 mV
Constant Current Optimum Range	12-24V	18- 36V	24-48V	30 - 60V	36 - 72V	48 - 96V	54 - 108V	75 - 150V	110 - 220V
Voltage Accuracy	± 1.0%								
Line Regulation	± 1.0%								
Load Regulation	± 1.0%								
Startup & Rise Time	1500 mS , 100 mS /230 VAC (full load)								
Input									
Voltage Range	180 - 264 VAC / 245 - 370 VDC								
Frequency Range	45 Hz - 65 Hz								
Power Factor	PF ≧0.6/230 VAC (at full load)								
Efficiency	86 %	87 %	88 %	89 %	90 %	90 %	90 %	91 %	91 %
AC Current	＜ 89 A								
Leakage Current	＜ 3.0 mA / 240 VAC								
Protection Function									
Short Circuit	Input constant current								
Over Temperature	Shut down the output, automatically recover or restart after the temperature drops								
Output Voltage Adjustment	0 - 13.2V	0 - 26.4V	0 - 39.6V	0 - 52.8V	0 - 79.2V	0 - 105.6V	0 - 121V	0 - 165V	0 - 242V
Output Constant Current Adjustment	0 - 355A	0 - 250A	0 - 188A	0 - 150A	0 - 125A	0 - 94A	0 - 83A	0 - 60A	0 - 41A

External Potentiometer	External potentiometer control (voltage, current) (customizable)
Analog Voltage Control	Adjust by knob
Auxiliary Power Supply	Voltage, current (customizable)
Remote Control Switch	Default power on, high level power off (customizable)
Environment	
Operating Temperature	-20 - +60℃
Operating Humidity	-20 - 90% RH No condensation
Storage Temperature And Humidity	-40 - +85℃, 10 - 95% RH No condensation
Vibration Resistance	10 - 500 Hz , 2G 10 Minutes/cycle, X, Y, Z Axis 60 minute
Safety	
Insulation Resistance	Input to output: 100 Mhms /500 VDC /25℃/70% RH
Pressure Resistance	I/PO/P :1.2 KVAC I /P- FG :1.2 KVAC O /P- FG :0.5 KVAC
Others	
Size	415*222.8*172 mm (L*W*H)
Net Weight	14.2 KG
Remark	
1. All parameters are in 230 VAC Voltage input, rated load and The values are measured at 25°C. 2. Ripple and noise voltage are 20 MHz Bandwidth Oscilloscope Band 12 Inch twisted pair ends 0.1 μ and 47 μ Capacitance is measured at 20 MHZ The measurement is performed at bandwidth. 3. Accuracy: includes setting error, line regulation and load regulation. 4. The output needs to be derated in case of low input voltage. Please refer to the static characteristic curve for details. 5. The startup time is measured when the machine is cold. Frequent power on and off may increase the startup time. time.	

• STATIC CHARACTERISTIC CURVE





IPS-SPS-3000W series switching power supply

Voltage input range: 95-265VAC

Power factor PF≧0.99 · Working efficiency up to 93%

485 communication control

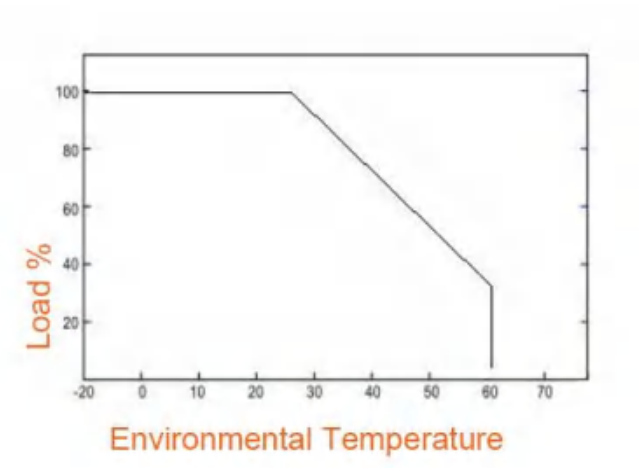
Size:289*174*69mm(L*W*H)

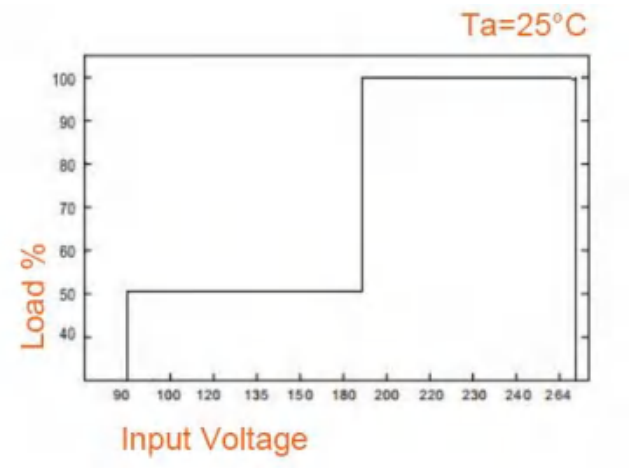
●TECHNICAL PARAMETERS

Technical Performance	Technical Index					
Model	IPS-SPS -3000-12	IPS-SPS -3000-24	IPS-SPS -3000-36	IPS-SPS -3000-48	IPS-SPS -3000-60	IPS-SPS -3000-220
Output						
DC Voltage	12VDC	24VDC	36VDC	48VDC	60VDC	220VDC
Rated Current	180A	125A	83.3A	62.5A	50A	13.6A
Current Range	0 - 180A	0 - 125A	0 - 83.3A	0 - 62.5A	0 - 50A	0 - 13.6A
Rated Power	2700W	3000W				
Ripple	200 mV	200 mV	260 mV	300 mV	500 mV	1000 mV
Constant Current Optimum Range	6 - 15V	12 - 24V	18 - 36V	twenty four - 48V	30 - 60V	110 - 220V
Rated Voltage Accuracy	± 1.0%					
Line Regulation	± 1.0%					
Load Regulation	± 1.0%					
Start Up& Rise Time	1500 mS , 700 mS /230 VAC (full load)					
Input						
Voltage Range	95-190 VAC (output current 50%),195-265 VAC (output current 100%)					
Frequency Range	45 Hz - 65 Hz					
Power Factor	PF ≧0.99/230 VAC (at full load)					
Efficiency (Max)	87 %	90 %	91.5 %	92 %	92.5 %	93 %
AC Current	＜ 18A					
Leakage Current	＜3.0 mA / 240 VAC					
Protec Function						
Short Circuit	Entering constant current and voltage lower than rated voltage 10%, 1 After seconds, the output is shut down and locked, and it will recover after restarting.					
Overcurrent	User-settable over-current value delay 5 The output will be turned off after seconds and will be restored after restart.					
Over-voltage	Users can set the overvoltage value to shut down the output voltage, and restore after restart					

Over Temperature	Shut down the output, automatically recover or restart after the temperature drops					
Output Voltage Adjustment	0 - 15V	0 - 26.4V	0 - 39.6V	0 - 52.8V	0 - 66V	0 - 242V
Output Constant Current Adjustment	0 - 180A	0 - 125A	0 - 83.3A	0 - 62.5A	0 - 50A	0 - 13.6A
Current Sharing	Parallel current sharing					
Isolated Auxiliary Power Supply	12V 0.5A					
Output Remote Switch	Default power on, high level power off (5V-12V)					
Alarm Signal Output	Power Good Signal (Dry contact ≦36V, 0.1A)					
Environment						
Operating Temperature	-20 - +60℃					
Operating Humidity	-20 - 90% RH No condensation					
Storage Temperature And Humidity	-40 - +85℃, 10 - 95% RH No condensation					
Vibration Resistance	10 - 500 Hz , 2G 10 Minutes/cycle, X, Y, Z Axis 60 minute					
Safety						
Insulation Resistance	Input to output: 100 Mhms /500 VDC /25℃/70% RH					
Pressure Resistance	I/PO/P:2 KVAC I /P- FG :2 KVAC O /P- FG :0.5 KVAC					
Others						
Size	289*174*69 mm (L*W*H)					
Net Weight	3.3 KG					
Remark						
1. All parameters are in 230 VAC Voltage input, rated load and The values are measured at 25°C. 2. Ripple and noise voltage are 20 MHz Bandwidth Oscilloscope Band 12 Inch twisted pair ends 0.1 μ and 47 μ Capacitance is measured at 20 MHZ The measurement is performed at bandwidth . 3. Accuracy: includes setting error, line regulation and load regulation. 4. The output needs to be derated in case of low input voltage. Please refer to the static characteristic curve for details. 5. The startup time is measured when the machine is cold. Frequent power on and off may increase the startup time.						

• STATIC CHARACTERISTIC CURVE





IPS-SPS-6000W series switching power supply

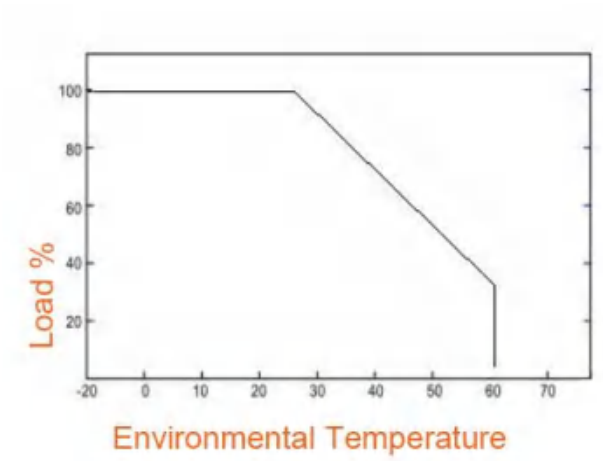
- Voltage input range: 95-265VAC
- Power factor PF≧0.99 · Working efficiency up to 93%
- 485 communication control
- Size:432*179*242mm(L*W*H)

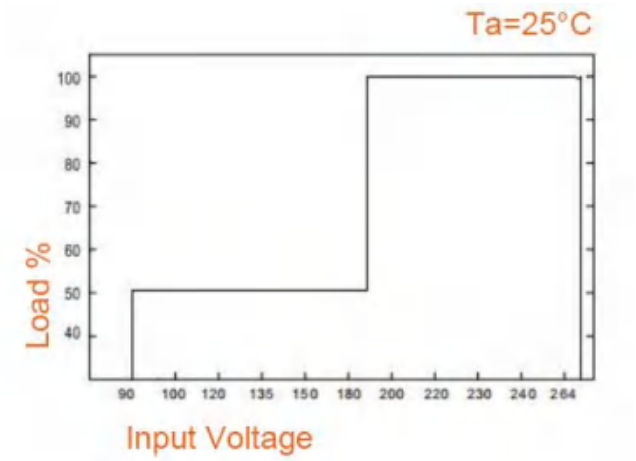
●TECHNICAL PARAMETERS

Technical Performance	Technical Index					
Model	IPS-SPS -6000-24	IPS-SPS -6000-36	IPS-SPS -6000-48	IPS-SPS -6000-60	IPS-SPS -6000-110	IPS-SPS -6000-220
Output						
DC Voltage	24VDC	36VDC	48VDC	60VDC	110VDC	220VDC
Rated Current	225A	150A	112A	90A	49A	24.5A
Current Range	0 - 225A	0 - 150A	0 - 112A	0 - 90A	0 - 49A	0 - 24.5A
Rated Power	5400W					
Ripple	500 mV	500 mV	600 mV	600 mV	1000 mV	1500 mV
Constant Current Optimum Range	12 - 24V	18 - 36V	24 - 48V	30 - 60V	55 - 110V	110 - 220V
Rated Voltage Accuracy	±1.0%					
Line Regulation	±1.0%					
Load Regulation	±1.0%					
Start Up& Rise Time	1500 mS , 700 mS /230 VAC (full load)					
Input						
Voltage Range	95-190 VAC (output current 50%), 195-265 VAC (output current 100%)					
Frequency Range	45 Hz - 65 Hz					
Power Factor	PF ≧0.99/230 VAC (at full load)					
Efficiency (Max)	90 %	91.5 %	92 %	92 %	92.5 %	93 %
AC Current	＜ 56A					
Leakage Current	＜3.0 mA / 240 VAC					
Protec Function						
Short Circuit	Entering constant current and the voltage is lower than 10% of the rated voltage, Shut down and lock the output after 1 second, and recover after restart					
Overcurrent	The user can set the over-current value to delay the output for 5 seconds and then shut down the output, and then resume after restarting.					
Over-voltage	Users can set the overvoltage value to shut down the output voltage, and restore after restart					

Over Temperature	Shut down the output, automatically recover or restart after the temperature drops					
Output Voltage Adjustment	0 - 26.4V	0 - 39.6V	0 - 52.8V	0 - 66V	0 - 121V	0 - 242V
Output Constant Current Adjustment	0 - 225A	0 - 150A	0 - 112A	0 - 90A	0 - 49A	0 - 24.5A
485 Communication	MODBUS Communication Protocol					
Isolated Auxiliary Power Supply	12V 0.5A (need to be customized)					
Output Remote Switch	Default power on, high level power off (5V-12V) (need to be customized)					
Alarm Signal Output	Power Good Signal (Dry contact ≦36V, 0.1A) (need to be customized)					
Environment						
Operating Temperature	-20 - +60℃					
Operating Humidity	-20 - 90% RH No condensation					
Storage Temperature And Humidity	-40 - +85℃, 10 - 95% RH No condensation					
Safety						
Vibration Resistance	10 - 500 Hz , 2G 10 Minutes/cycle, X, Y, Z Axis 60 minute					
Insulation Resistance	Input to output: 100 Mhms /500 VDC /25℃/70% RH					
Others						
Size	432*179*242 mm (L*W*H)					
Net Weight	9 KG					
Remark						
1. VAC unless otherwise specified. Values measured at voltage input, rated load and 25°C . 2. Ripple and noise voltages are measured with a 20 MHz bandwidth oscilloscope with 0.1μ and 47μ capacitors added to the ends of 12-inch twisted pair cables . Bandwidth Test. 3. Accuracy: includes setting error, line regulation and load regulation. 4. The output needs to be derated in case of low input voltage. Please refer to the static characteristic curve for details . 5. The startup time is measured when the machine is cold. Frequent power on and off may increase the startup time.						

• STATIC CHARACTERISTIC CURVE





IPS-SPS-9000W series switching power supply

Voltage input range: 95-265VAC

Power factor PF≧0.99 · Working efficiency up to 93%

485 communication control

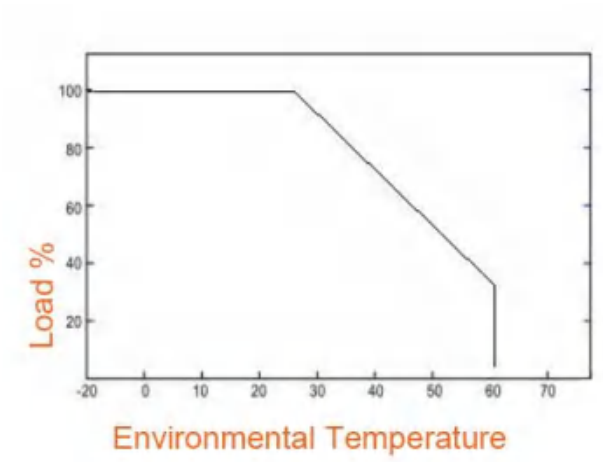
Size:432*179*242mm(L*W*H)

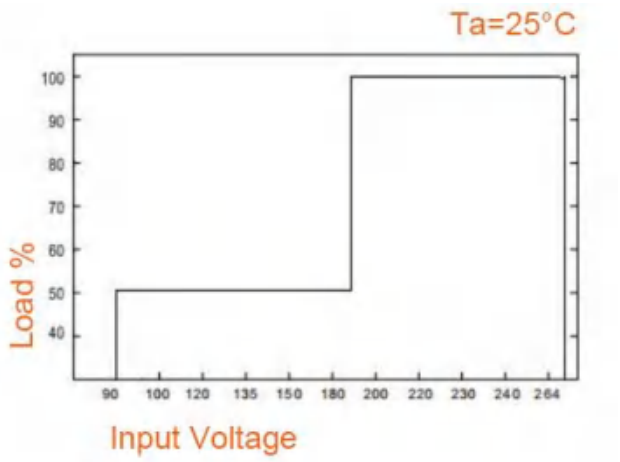
●TECHNICAL PARAMETERS

Technical Performance	Technical Index					
Model	IPS-SPS-9000-24	IPS-SPS-9000-36	IPS-SPS-9000-48	IPS-SPS-9000-60	IPS-SPS-9000-110	IPS-SPS-9000-220
Output						
DC Voltage	24VDC	36VDC	48VDC	60VDC	110VDC	220VDC
Rated Current	225A	150A	112A	90A	49A	24.5A
Current Range	0 - 225A	0 - 150A	0 - 112A	0 - 90A	0 - 49A	0 - 24.5A
Rated Power	5400W					
Ripple	500 mV	500 mV	600 mV	600 mV	1000 mV	1500 mV
Constant Current Optimum Range	12 - 24V	18 - 36V	24 - 48V	30 - 60V	55 - 110V	110 - 220V
Rated Voltage Accuracy	±1.0%					
Line Regulation	±1.0%					
Load Regulation	±1.0%					
Start Up& Rise Time	1500 mS , 700 mS /230 VAC (full load)					
Input						
Voltage Range	95-190 VAC (output current 50%),195-265 VAC (output current 100%)					
Frequency Range	45 Hz - 65 Hz					
Power Factor	PF ≧0.99/230 VAC (at full load)					
Efficiency (Max)	90 %	91.5 %	92 %	92 %	92.5 %	93 %
AC Current	＜ 56A					
Leakage Current	＜3.0 mA / 240 VAC					
Protec Function						
Short Circuit	Entering constant current and voltage lower than rated voltage 10%, 1 After seconds, the output is shut down and locked, and it will recover after restarting.					
Overcurrent	User-settable over-current value delay 5 The output will be turned off after seconds and will be restored after restart.					
Over-voltage	Users can set the overvoltage value to shut down the output voltage, and restore after restart					

Over Temperature	Shut down the output, automatically recover or restart after the temperature drops					
Output Voltage Adjustment	0 - 26.4V	0 - 39.6V	0 - 52.8V	0 - 66V	0 - 121V	0 - 242V
Output Constant Current Adjustment	0 - 337A	0 - 225A	0 - 168.5A	0 - 135A	0 - 73.5A	0 - 36.5A
485 Communication	MODBUS Communication Protocol					
Isolated Auxiliary Power Supply	12V 0.5A (need to be customized)					
Output Remote Switch	Default power on, high level power off (5V-12V) (need to be customized)					
Alarm Signal Output	Power Good Signal (Dry contact ≦36V, 0.1A) (need to be customized)					
Environment						
Operating Temperature	-20 - +60℃					
Operating Humidity	-20 - 90% RH No condensation					
Storage Temperature And Humidity	-40 - +85℃, 10 - 95% RH No condensation					
Vibration Resistance	10 - 500 Hz , 2G 10 Minutes/cycle, X, Y, Z Axis 60 minute					
Safety						
Insulation Resistance	Input to output: 100 Mhms /500 VDC /25℃/70% RH					
Pressure Resistance	I/PO/P:2 KVAC I /P- FG :2 KVAC O /P- FG :0.5 KVAC					
Others						
Size	432*179*242 mm (L*W*H)					
Net Weight	12.5 KG					
Remark						
1. All parameters are in 230 VAC Voltage input, rated load and The values are measured at 25°C. 2. Ripple and noise voltage are 20 MHz Bandwidth Oscilloscope Band 12 Inch twisted pair ends 0.1 μ and 47 μ Capacitance is measured at 20 MHZ The measurement is performed at bandwidth . 3. Accuracy: includes setting error, line regulation and load regulation. 4. The output needs to be derated in case of low input voltage. Please refer to the static characteristic curve for details. 5. The startup time is measured when the machine is cold. Frequent power on and off may increase the startup time.						

• STATIC CHARACTERISTIC CURVE





IPS-SPS-12000W series switching power supply

Voltage input range: 95-265VAC

Power factor PF≧0.99 · Working efficiency up to 93%

485 communication control

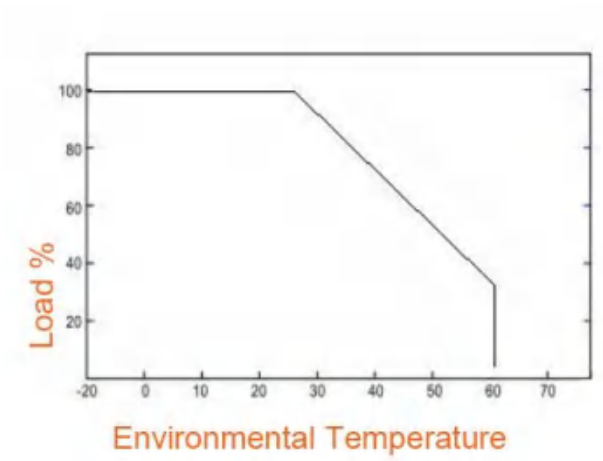
Size:455*345*251mm(L*W*H)

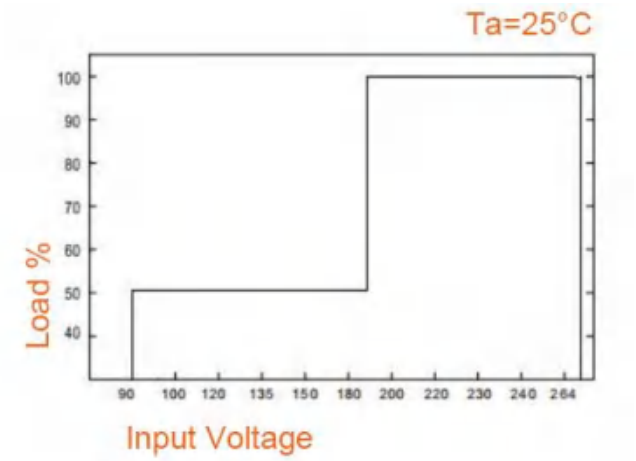
●TECHNICAL PARAMETERS

Technical Performance	Technical Index					
Model	IPS-SPS-12000-36	IPS-SPS-12000-48	IPS-SPS-12000-60	IPS-SPS-12000-72	IPS-SPS-12000-110	IPS-SPS-12000-220
Output						
DC Voltage	24V	36V	48V	60V	110V	220V
Rated Current	300A	225A	180A	150A	98A	49A
Current Range	0 - 300A	0 - 225A	0 - 180A	0 - 150A	0 - 98A	0 - 49A
Rated Power	12000W					
Ripple	500 mV	500 mV	600 mV	600 mV	1000 mV	1500 mV
Constant Current Optimum Range	12 - 24V	18 - 36V	24 - 48V	30 - 60V	55 - 110V	110 - 220V
Rated Voltage Accuracy	±1.0%					
Line Regulation	±1.0%					
Load Regulation	±1.0%					
Start Up& Rise Time	1500 mS , 700 mS /230 VAC (full load)					
Input						
Voltage Range	95-190 VAC (output current 50%),195-265 VAC (output current 100%)					
Frequency Range	45 Hz - 65 Hz					
Power Factor	PF ≧0.99/230 VAC (at full load)					
Efficiency (Max)	90 %	91.5 %	92 %	92 %	92.5 %	93 %
AC Current	＜ 110A					
Leakage Current	＜3.0 mA / 240 VAC					
Protec Function						
Short Circuit	Entering constant current and voltage lower than rated voltage 10%, 1 After seconds, the output is shut down and locked, and it will recover after restarting.					
Overcurrent	User-settable over-current value delay 5 The output will be turned off after seconds and will be restored after restart.					
Over-voltage	Users can set the overvoltage value to shut down the output voltage, and restore after restart					

Over Temperature	Shut down the output, automatically recover or restart after the temperature drops					
Output Voltage Adjustment	0 - 26.4V	0 - 39.6V	0 - 52.8V	0 - 66V	0 - 121V	0 - 242V
Output Constant Current Adjustment	0 - 300A	0 - 225A	0 - 180A	0 - 150A	0 - 98A	0 - 49A
485 Communication	MODBUS Communication Protocol					
Isolated Auxiliary Power Supply	12V 0.5A (need to be customized)					
Output Remote Switch	Default power on, high level power off (5V-12V) (need to be customized)					
Alarm Signal Output	Power Good Signal (Dry contact ≦36V, 0.1A) (need to be customized)					
Environment						
Operating Temperature	-20 - +60℃					
Operating Humidity	-20 - 90% RH No condensation					
Storage Temperature And Humidity	-40 - +85℃, 10 - 95% RH No condensation					
Vibration Resistance	10 - 500 Hz , 2G 10 Minutes/cycle, X, Y, Z Axis 60 minute					
Safety						
Insulation Resistance	Input to output: 100 Mhms /500 VDC /25℃/70% RH					
Pressure Resistance	I/PO/P:2 KVAC I /P- FG :2 KVAC O /P- FG :0.5 KVAC					
Others						
Size	455*345*251 mm (L*W*H)					
Net Weight	15.2 KG					
Remark						
1. All parameters are in 230 VAC Voltage input, rated load and The values are measured at 25°C. 2. Ripple and noise voltage are 20 MHz Bandwidth Oscilloscope Band 12 Inch twisted pair ends 0.1μ and 47μ capacitance was measured. 20 MHZ The measurement is performed at bandwidth . 3. Accuracy: includes setting error, line regulation and load regulation. 4. The output needs to be derated in case of low input voltage. Please refer to the static characteristic curve for details. 5. The startup time is measured when the machine is cold. Frequent power on and off may increase the startup time.						

• STATIC CHARACTERISTIC CURVE





IPS-SPS-15000W series switching power supply

Voltage input range: 95-265VAC

Power factor PF≧0.99 · Working efficiency up to 93%

485 communication control

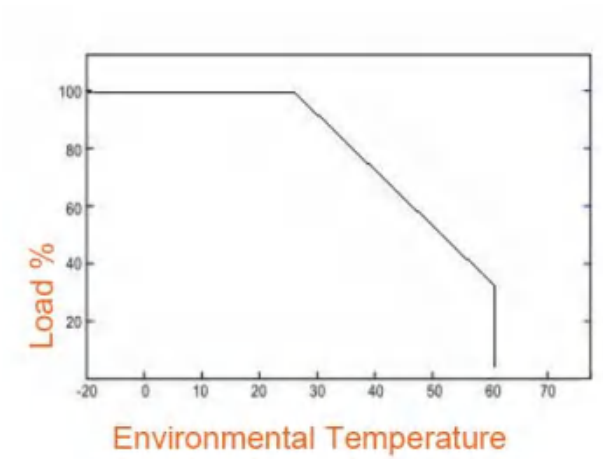
Size:455*345*251mm(L*W*H)

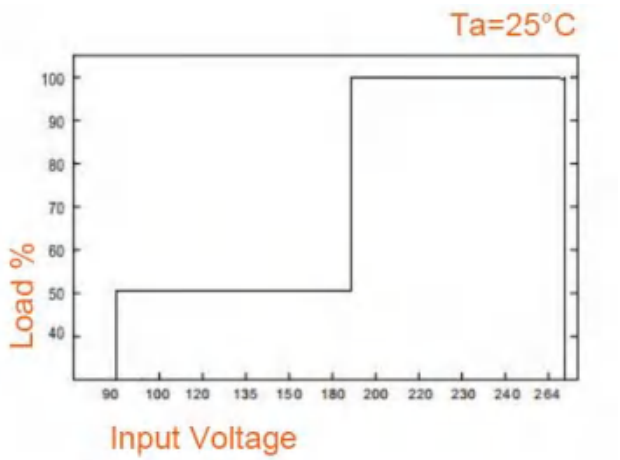
●TECHNICAL PARAMETERS

Technical Performance	Technical Index					
Model	IPS-SPS-15000-36	IPS-SPS-15000-48	IPS-SPS-15000-60	IPS-SPS-15000-72	IPS-SPS-15000-110	IPS-SPS-15000-220
Output						
DC Voltage	24V	36V	48V	60V	110V	220V
Rated Current	375A	281A	225A	187A	122A	55A
Current Range	0 - 375A	0 - 281A	0 - 225A	0 - 187A	0 - 122A	0 - 55A
Rated Power	15000W					
Ripple	500 mV	500 mV	600 mV	600 mV	1000 mV	1500 mV
Constant Current Optimum Range	12 - 24V	18 - 36V	24 - 48V	30 - 60V	55 - 110V	110 - 220V
Rated Voltage Accuracy	±1.0%					
Line Regulation	±1.0%					
Load Regulation	±1.0%					
Start Up& Rise Time	1500 mS , 700 mS /230 VAC (full load)					
Input						
Voltage Range	95-190 VAC (output current 50%),195-265 VAC (output current 100%)					
Frequency Range	45 Hz - 65 Hz					
Power Factor	PF ≧0.99/230 VAC (at full load)					
Efficiency (Max)	90 %	91.5 %	92 %	92 %	92.5 %	93 %
AC Current	＜ 110A					
Leakage Current	＜3.0 mA / 240 VAC					
Protec Function						
Short Circuit	Entering constant current and voltage lower than rated voltage 10%, 1 After seconds, the output is shut down and locked, and it will recover after restarting.					
Overcurrent	User-settable over-current value delay 5 The output will be turned off after seconds and will be restored after restart.					
Over-voltage	Users can set the overvoltage value to shut down the output voltage, and restore after restart					

Over Temperature	Shut down the output, automatically recover or restart after the temperature drops					
Output Voltage Adjustment	0 - 26.4V	0 - 39.6V	0 - 52.8V	0 - 66V	0 - 121V	0 - 242V
Output Constant Current Adjustment	0 - 375A	0 - 281A	0 - 225A	0 - 187A	0 - 122A	0 - 55A
485 Communication	MODBUS Communication Protocol					
Isolated Auxiliary Power Supply	12V 0.5A (need to be customized)					
Output Remote Switch	Default power on, high level power off (5V-12V) (need to be customized)					
Alarm Signal Output	Power Good Signal (Dry contact ≦36V, 0.1A) (need to be customized)					
Environment						
Operating Temperature	-20 - +60℃					
Operating Humidity	-20 - 90% RH No condensation					
Storage Temperature And Humidity	-40 - +85℃, 10 - 95% RH No condensation					
Vibration Resistance	10 - 500 Hz , 2G 10 Minutes/cycle, X, Y, Z Axis 60 minute					
Safety						
Insulation Resistance	Input to output: 100 Mhms /500 VDC /25℃/70% RH					
Pressure Resistance	I/PO/P:2 KVAC I /P- FG :2 KVAC O /P- FG :0.5 KVAC					
Others						
Size	455*345*251 mm (L*W*H)					
Net Weight	18 KG					
Remark						
1. All parameters are in 230 VAC Voltage input, rated load and The values are measured at 25°C. 2. Ripple and noise voltage are 20 MHz Bandwidth Oscilloscope Band 12 Inch twisted pair ends 0.1μ and 47μ capacitance was measured. 20 MHZ The measurement is performed at bandwidth . 3. Accuracy: includes setting error, line regulation and load regulation. 4. The output needs to be derated in case of low input voltage. Please refer to the static characteristic curve for details. 5. The startup time is measured when the machine is cold. Frequent power on and off may increase the startup time.						

• STATIC CHARACTERISTIC CURVE





IPS-SPS-18000W series switching power supply

Voltage input range: 95-265VAC

Power factor PF≧0.99 · Working efficiency up to 93%

485 communication control

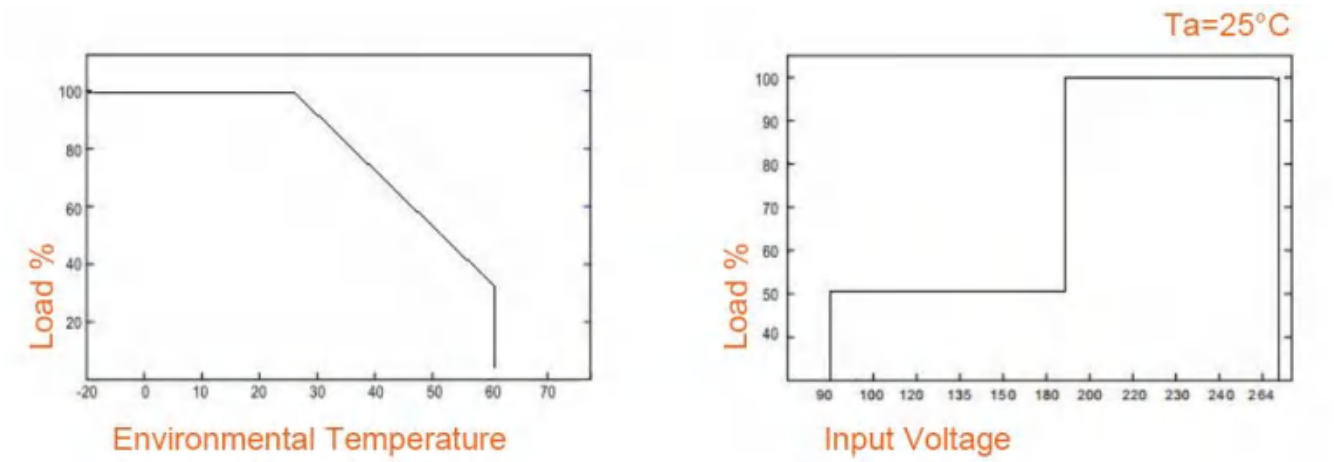
Size:455*345*251mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index					
Model	IPS-SPS-18000-36	IPS-SPS-18000-48	IPS-SPS-18000-60	IPS-SPS-18000-72	IPS-SPS-18000-110	IPS-SPS-18000-220
Output						
DC Voltage	24VDC	36VDC	48VC	60VDC	110VC	220VDC
Rated Current	450A	337A	270A	225A	147A	73.5A
Current Range	0 - 450A	0 - 337A	0 - 270A	0 - 225A	0 - 147A	0 - 73.5A
Rated Power	18000W					
Ripple	500 mV	500 mV	600 mV	600 mV	1000 mV	1500 mV
Constant Current Optimum Range	12 - 24V	18 - 36V	24 - 48V	30 - 60V	55 - 110V	110 - 220V
Rated Voltage Accuracy	± 1.0%					
Line Regulation	± 1.0%					
Load Regulation	± 1.0%					
Start Up& Rise Time	1500 mS , 700 mS /230 VAC (full load)					
Input						
Voltage Range	95-190 VAC (output current 50%),195-265 VAC (output current 100%)					
Frequency Range	45 Hz - 65 Hz					
Power Factor	PF ≧0.99/230 VAC (at full load)					
Efficiency (Max)	90 %	91.5 %	92 %	92 %	92.5 %	93 %
AC Current	＜ 110A					
Leakage Current	＜3.0 mA / 240 VAC					
Protect Function						
Short Circuit	Entering constant current and voltage lower than rated voltage 10%, 1 After seconds, the output is shut down and locked, and it will recover after restarting.					
Over-current	User-settable over-current value delay 5 The output will be turned off after seconds and will be restored after restart.					
Over-voltage	Users can set the over-voltage value to shut down the output voltage, and restore after restart					

Over Temperature	Shut down the output, automatically recover or restart after the temperature drops					
Output Voltage Adjustment	0 - 26.4V	0 - 39.6V	0 - 52.8V	0 - 66V	0 - 121V	0 - 242V
Output Constant Current Adjustment	0 - 450A	0 - 337A	0 - 270A	0 - 225A	0 - 147A	0 - 73.5A
485 Communication	MODBUS Communication Protocol					
Isolated Auxiliary Power Supply	12V 0.5A (need to be customized)					
Output Remote Switch	Default power on, high level power off (5V-12V) (need to be customized)					
Alarm Signal Output	Power Good Signal (Dry contact ≦36V, 0.1A) (need to be customized)					
Environment						
Operating Temperature	-20 - +60℃					
Operating Humidity	-20 - 90% RH No condensation					
Storage Temperature And Humidity	-40 - +85℃, 10 - 95% RH No condensation					
Vibration Resistance	10 - 500 Hz , 2G 10 Minutes/cycle, X, Y, Z Axis 60 minute					
Safety						
Insulation Resistance	Input to output: 100 Mhms /500 VDC /25℃/70% RH					
Pressure Resistance	I/PO/P:2 KVAC I /P- FG :2 KVAC O /P- FG :0.5 KVAC					
Others						
Size	455*345*251 mm (L*W*H)					
Net Weight	22 KG					
Remark						
1. All parameters are in 230 VAC Voltage input, rated load and The values are measured at 25°C. 2. Ripple and noise voltage are 20 MHz Bandwidth Oscilloscope Band 12 Inch twisted pair ends 0.1μ and 47μ capacitance was measured. 20 MHZ The measurement is performed at bandwidth . 3. Accuracy: includes setting error, line regulation and load regulation. 4. The output needs to be derated in case of low input voltage. Please refer to the static characteristic curve for details. 5. The startup time is measured when the machine is cold. Frequent power on and off may increase the startup time.						

• STATIC CHARACTERISTIC CURVE



IPS-PFC-200W series switching power supply

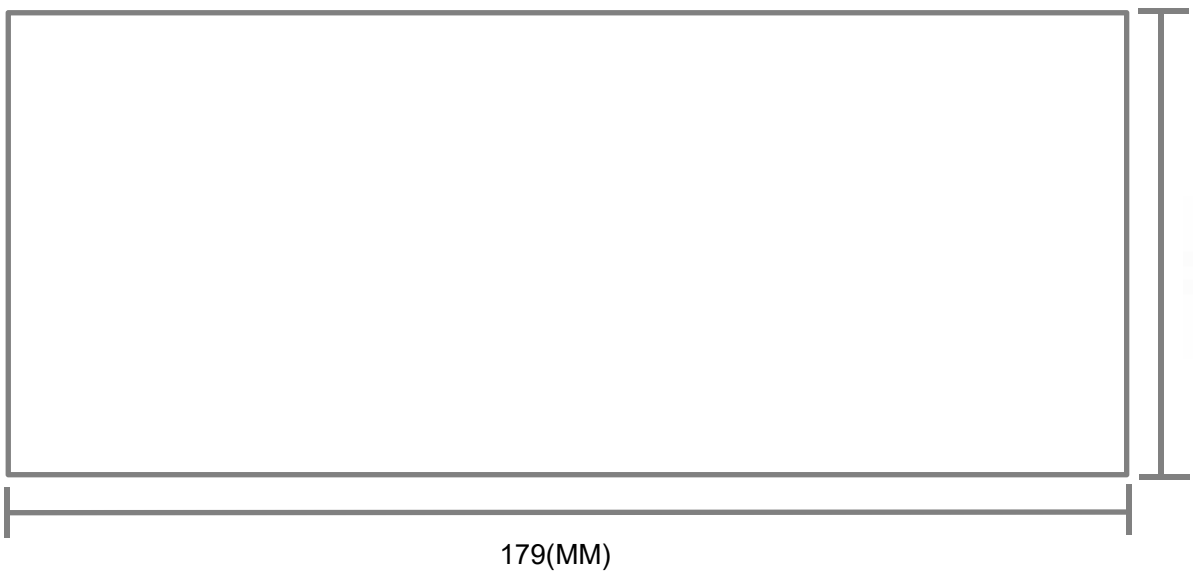
Over voltage/Under Voltage/Overload/
Over temperature/Fan stop protection

Size:179*112*43mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index			
Model	IPS-PFC200 -12	IPS-PFC200 -24	IPS-PFC200 -36	IPS-PFC200 -48
Output Parameters				
DC Output Voltage	12VDC	24VDC	36VDC	48VDC
Rated Output Current	16.6A	8.3A	5.5A	4.1A
Rated Output Power	200W	200W	200W	200W
Input Parameters				
Input Voltage	95-264Vac			
Input Frequency	50/60HZ			
Others				
Working Temperature	-25-50℃			
Size	Length 179mm * width 112mm * height 43mm			
Weight	0.6kg (excluding package and accessories)			
Installation Hole Position	Length spacing: 228mm Width spacing: 158mm Use matching mounting brackets (can only be installed parallel, not side mounted)			

● OVERALL DIMENSION(MM)



IPS-PFC-300W series switching power supply

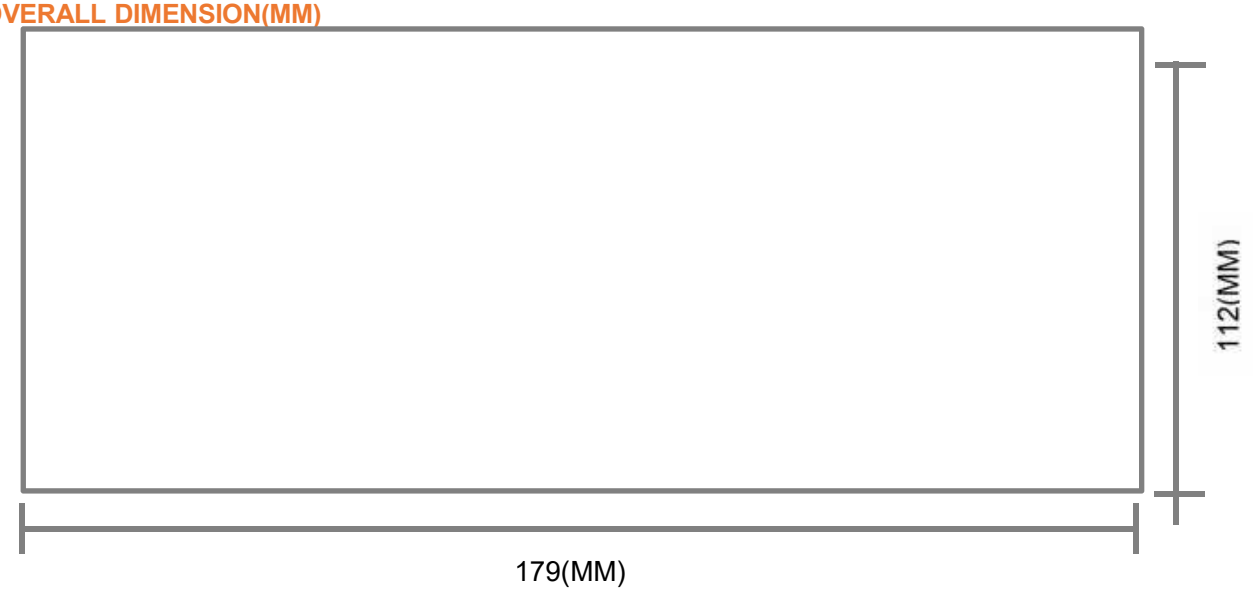
Over voltage/Under Voltage/Overload/
Over temperature/Fan stop protection

Size:179*112*43mm(L*W*H)

●TECHNICAL PARAMETERS

Technical Performance	Technical Index			
Model	IPS-PFC300 -12	IPS-PFC300 -24	IPS-PFC300 -36	IPS-PFC300 -48
Output Parameters				
DC Output Voltage	12VDC	24VDC	36VDC	48VDC
Rated Output Current	25A	12.5A	8.33A	6.25A
Rated Output Power	300W	300W	300W	300W
Input Parameters				
Input Voltage	95-264Vac			
Input Frequency	50/60HZ			
Others				
Working Temperature	-25-50℃			
Size	Length 179mm * width 112mm * height 43mm			
Weight	0.6kg (excluding package and accessories)			
Installation Hole Position	Length spacing: 228mm Width spacing: 158mm Use matching mounting brackets (can only be installed parallel, not side mounted)			

● OVERALL DIMENSION(MM)



IPS-PFC-350W series switching power supply

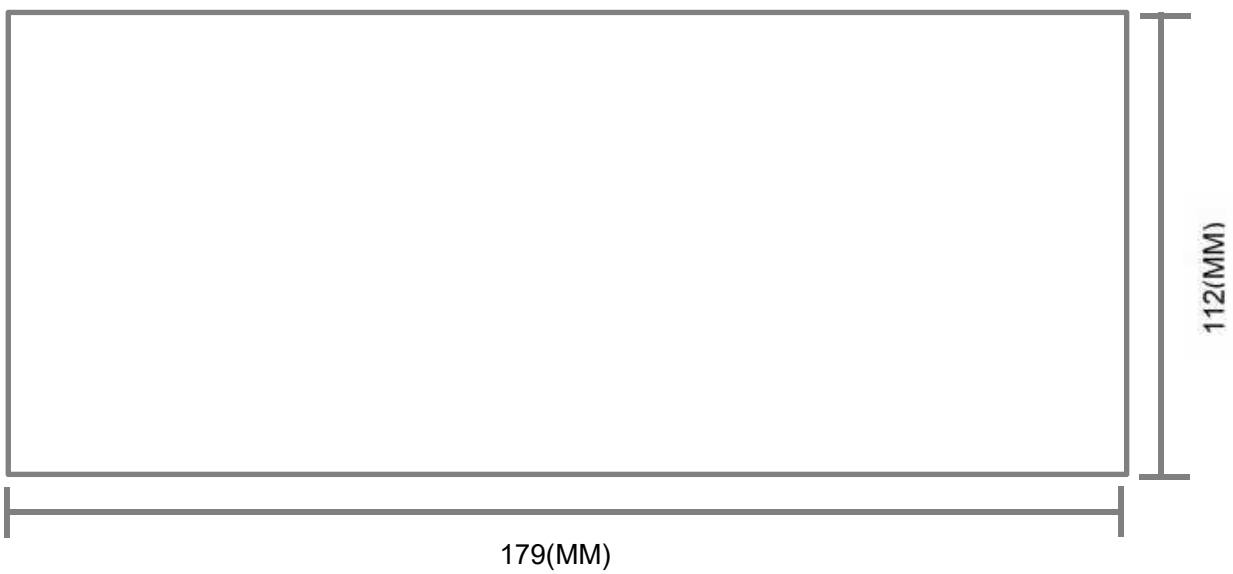
Over voltage/Under Voltage/Overload/
Over temperature/Fan stop protection

Size:179*112*43mm(L*W*H)

•TECHNICAL PARAMETERS

Technical Performance	Technical Index			
Model	IPS-PFC350 -12	IPS-PFC350 -24	IPS-PFC350 -36	IPS-PFC350 -48
Output Parameters				
DC Output Voltage	12VDC	24VDC	36VDC	48VDC
Rated Output Current	29.17A	14.58A	9.72A	7.29A
Rated Output Power	350W	350W	350W	350W
Input Parameters				
Input Voltage	95-264Vac			
Input Frequency	50/60HZ			
Others				
Working Temperature	-25-50℃			
Size	Length 179mm * width 112mm * height 43mm			
Weight	0.6kg (excluding package and accessories)			
Installation Hole Position	Length spacing: 228mm Width spacing: 158mm Use matching mounting brackets (can only be installed parallel, not side mounted)			

• OVERALL DIMENSION(MM)



IPS-PFC-400W series switching power supply

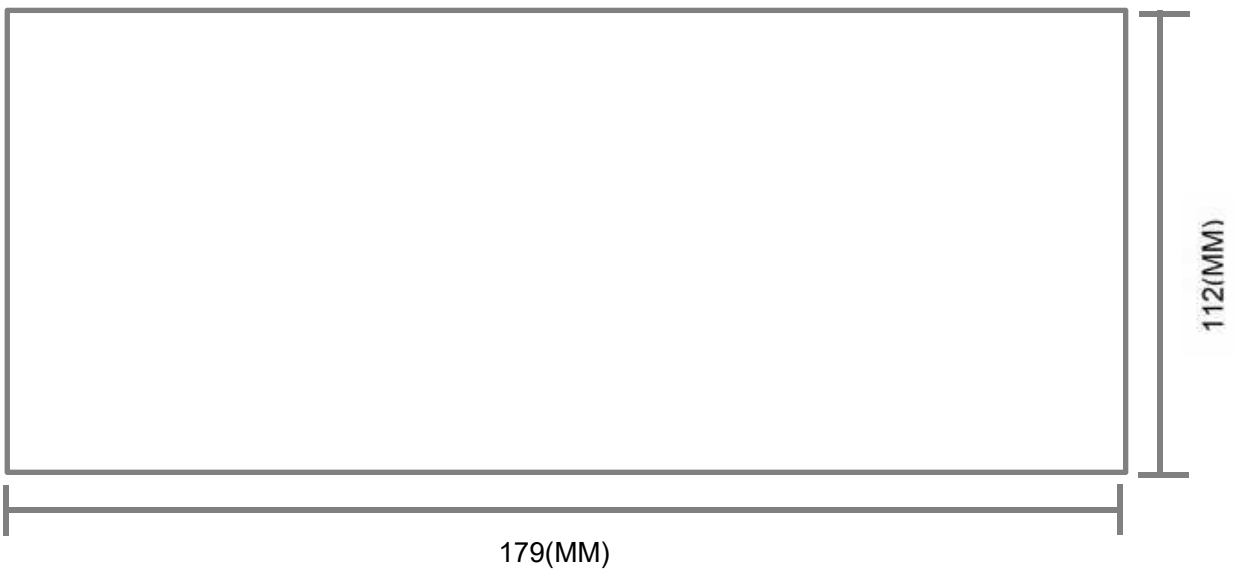
Over voltage/Under Voltage/Overload/
Over temperature/Fan stop protection

Size:179*112*43mm(L*W*H)

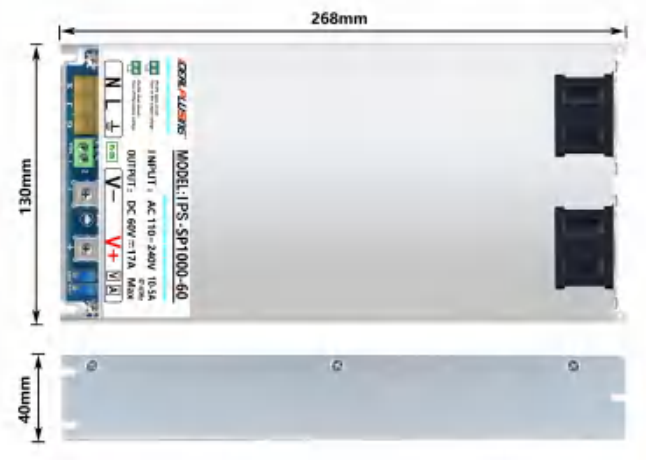
●TECHNICAL PARAMETERS

Technical Performance	Technical Index			
Model	IPS-PFC400 -12	IPS-PFC400 -24	IPS-PFC400 -36	IPS-PFC400 -48
Output Parameters				
DC Output Voltage	12VDC	24VDC	36VDC	48VDC
Rated Output Current	41.67A	20.83A	13.89A	10.42A
Rated Output Power	400W	400W	400W	400W
Input Parameters				
Input Voltage	95-264Vac			
Input Frequency	50/60HZ			
Others				
Working Temperature	-25-50℃			
Size	Length 179mm * width 112mm * height 43mm			
Weight	0.6kg (excluding package and accessories)			
Installation Hole Position	Length spacing: 228mm Width spacing: 158mm Use matching mounting brackets (can only be installed parallel, not side mounted)			

● OVERALL DIMENSION(MM)



IPS-PFC-1000W With Active PFC Series Switching Power Supply



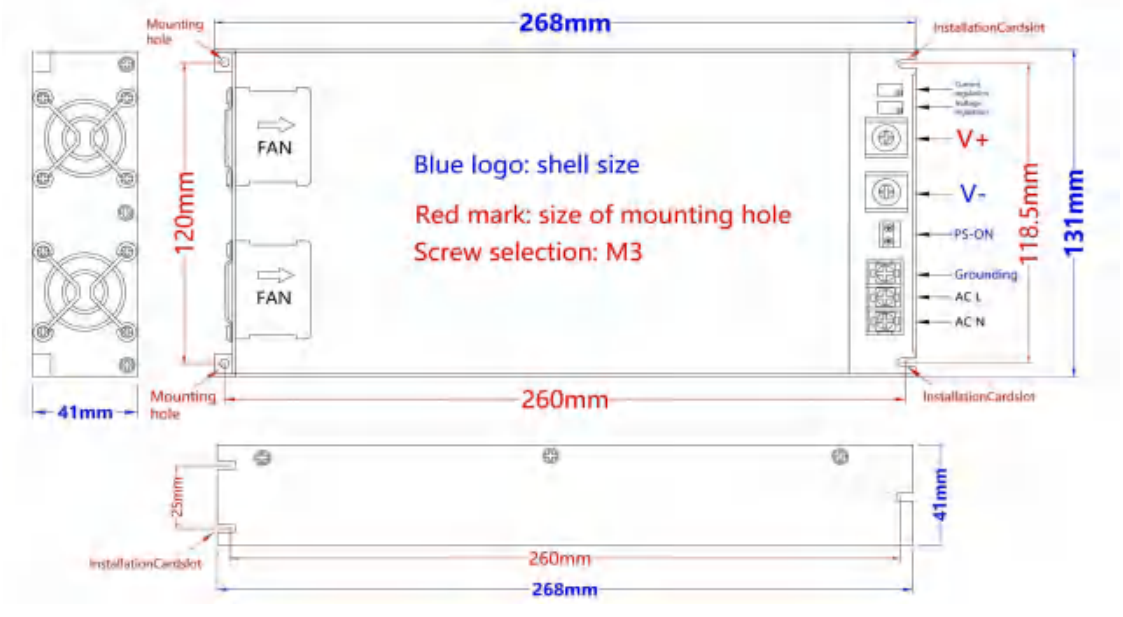
- With active PFC power factor correction function
- AC 110-260v wide voltage input
- Constant pressure and current function
- Control function of the ps-0n output voltage
- Multilayer board process (4-layer PCB)

•TECHNICAL PARAMETERS

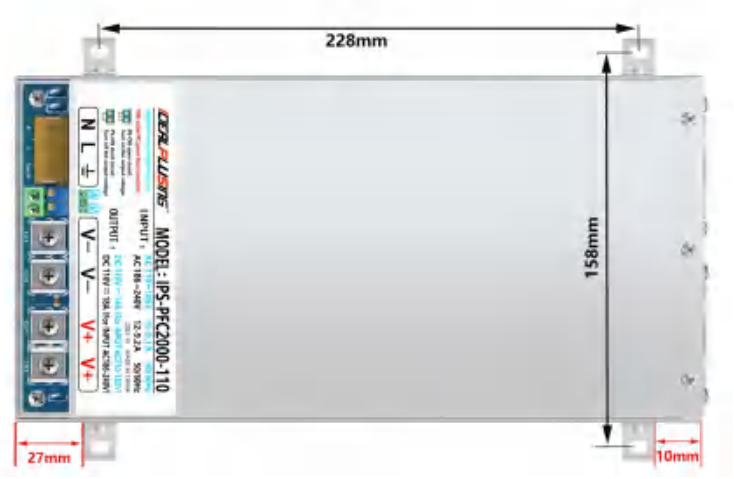
Technical Performance	Technical Index							
Model	IPS-PFC1000 -24	IPS-PFC1000 -36	IPS-PFC1000 -42	IPS-PFC1000 -48	IPS-PFC1000 -60	IPS-PFC1000 -72	IPS-PFC1000 - 110	IPS-PFC1000 - 150
Output Parameters								
DC Output Voltage	24VDC	36VDC	42VDC	48VDC	60VDC	72VDC	110VDC	150VDC
Rated Output Current	42A	28A	24A	21A	16.7A	14A	9.1A	6.7A
Rated Output Power	1008W	1008W	1008W	1008W	1002W	1008W	1001W	1005W
Voltage Regulation Range	17-25V	25-36V	33-42V	33-48V	41-60V	50-74V	74-110V	102-150V
	Note: If the output voltage is lowered, the maximum output current remains unchanged, and the power will decrease							
Output Over-voltage Protection Value	32V	46V	59V	59V	78V	90V	142V	182V
	Protection method: Turn off the output. Wait for 5 seconds after powering off, then power on again to recover							
Efficiency (100% Load)	88.3%	88.7%	89.3%	89.5%	89.7%	90%	90%	91%
	Note: Efficiency is measured at AC220V input, but when using AC110V input, efficiency will decrease							
Ripple (Full Load)	140mv	150mv	150mv	150mv	180mv	200mv	250mv	300mv
	Note: Ripple and noise test method: connect 47UF Electrolytic capacitor and 0.1UF Ceramic capacitor in parallel at the load end (in order to reduce the impact of new external series interference on the test). The Bandwidth throttling of the oscilloscope is limited to 20MHZ, which should be measured from the load end							
Linear Adjustment Rate	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Load Adjustment Rate	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%
Voltage Accuracy	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%
Start Up, Rise Time	3S，20ms/230VAC(At full load)							
Hold Up Time	8ms/230VAC(At full load)							
Input Parameters								
AC Input Voltage	AC 110-240V							
AC Input Frequency	47-63Hz							
Standby Power	11 watts							
Input Current (Maximum)	Full load 1000W output, using 220VAC input, input current 5A Full load 1000W output, using 110VAC input, input current 11A							
Power Factor	At 100% full load, the power factor PF value is ≥ 0.99							
Surge Current	220VAC/40A 110VAC/22A							

Function		
PS-ON	PS-on terminal short circuit: no output voltage of power supply PS-on terminal open circuit : The power supply has an output voltage Note: PS-on can control the power output voltage on and off. When the output voltage is turned off, the power supply is in the low power standby state (11watts), and only the auxiliary power supply circuit is working inside. The cooling fan will operate normally, not the power supply of 220V input end will be disconnected.	
Output Voltage Adjust	The output voltage is adjustable, and the potentiometer V is manually adjusted. See the parameters in the above table for the adjustment range	
Output Current Adjust	The output voltage is adjustable, and the potentiometer V is manually adjusted. See the parameters in the above table for the adjustment range	
EMI		
Conducted	CISPR32/EN55032 CLASS A	
Radiated	CISPR32/EN55032 CLASS A	
Harmonic Current	EN61000-3-2 CLASS A	
Voltage Flicker	IEC/EN61000-3-3	
Ems		
ESD	IEC/EN61000-4-2 Contact ±8KV/Air ±15KV	perf. Criteria A
Radiated Susceptibility	IEC/EN61000-4-3 10V/m	perf. Criteria A
Eft/Bures	IEC/EN61000-4-4 ±2KV	perf. Criteria A
Surge	IEC/EN61000-4-5 line to line ±2KV/line to ground ±4KV	perf. Criteria A
Conducted Susceptibility	IEC/EN61000-4-6 10Vr.m.s	perf. Criteria A
Voltage Dips And Interruptions	IEC/EN61000-4-11 0%, 70%	perf. Criteria B
Others		
Heat Dissipation Mode	Fan heat dissipation (temperature controlled speed regulation, internal blowing)	
Cooling Fan Noise Value	In an indoor environment of around 20-25 decibels, when the two fans rotate at full speed, a measurement of around 35 decibels is made at a distance of 1 meter from the power supply	
Working Temperature	-30℃ - 40℃ . To reduce power under high temperature environment, refer to the temperature load drop curve below	
Size	Length 268mm * width 131mm * height 41mm	
Weight	1.4kg (excluding package and accessories)	
Installation Hole Position	Length spacing: 260mm Width spacing: 120mm Use the installation holes at the four corners of the casing	

• OVERALL DIMENSION(MM)



IPS-PFC-2000W With Active PFC Series Switching Power Supply



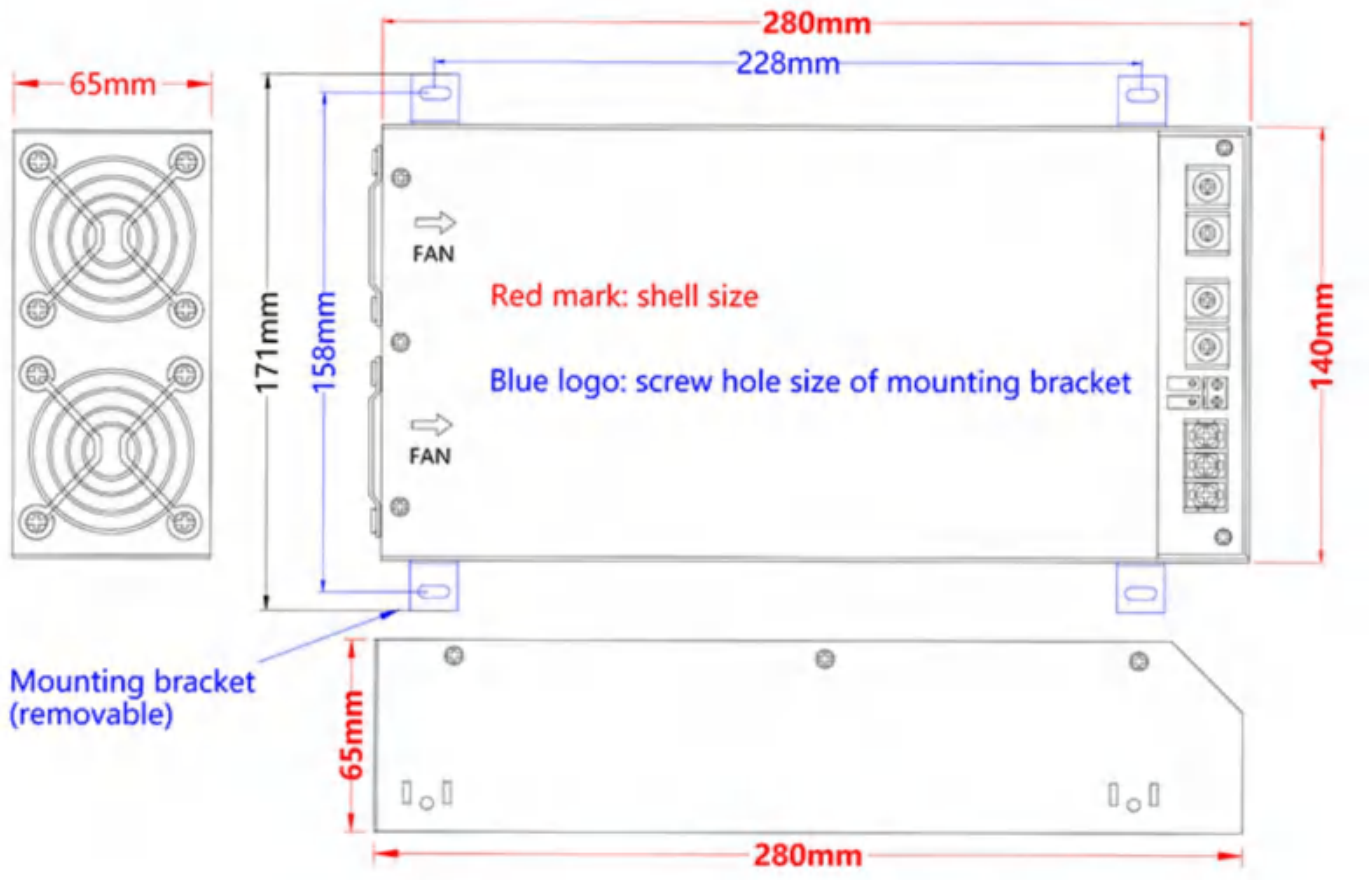
- With active PFC power factor correction function
- AC 110-260v wide voltage input
- Constant pressure and current function
- Control function of the ps-0n output voltage
- Multilayer board process (4-layer PCB)

●TECHNICAL PARAMETERS

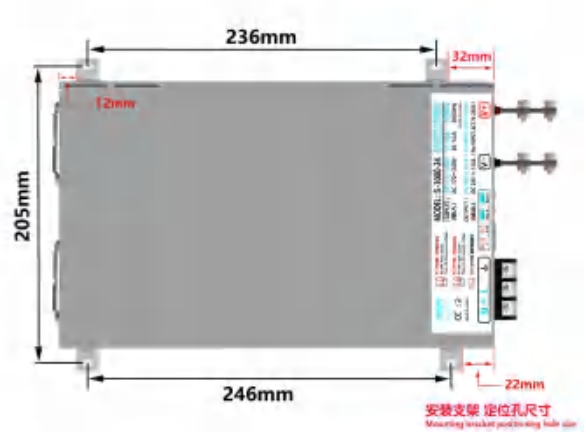
Brand			IDEALPLUSING						
Product Name			2000W Active PFC Switching Power Supply						
MODEL			IPS-PFC2000-24	IPS-PFC2000-36	IPS-PFC2000-48	IPS-PFC2000-60	IPS-PFC2000-72	IPS-PFC2000-110	IPS-PFC2000-150
Output Parameters	DC Output Voltage		24VDC	36VDC	48VDC	60VDC	72VDC	110VDC	150VDC
	AC 220V Input	Rated Output Current	83A	55.5A	41.6A	33A	27.7A	18A	13.3A
		Rated Output Power	2000W	2000W	2000W	2000W	2000W	2000W	2000W
	AC 110V Input	Rated Output Current	62.5A	41.6A	31A	25A	20.8A	13.6A	10A
		Rated Output Power	1500W	1500W	1500W	1500W	1500W	1500W	1500W
	Conversion Efficiency		88.5%	90.5%	91%	91%	91.5%	93%	93.5%
	Ripple (Full Load)		200mv	230mv	250mv	250mv	280mv	300mv	350mv
	Linear Adjustment Rate		±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Load Adjustment Rate		±1%	±1%	±1%	±1%	±1%	±1%	±1%
	Voltage Stabilization Accuracy		±3%	±3%	±3%	±3%	±3%	±3%	±3%
	Start Up, Rise Time		2S/300ms				Hold Up Ttime:15ms		
Input Parameter	Input Voltage		110~260VAC (wide voltage adaptive, no conversion required)						
	AC Input Frequency		47-63Hz						
	Input Current (Maximum)		Full load 2000W output, using 220VAC input, input current 10A Full load 1500W output, 15A when using 110VAC input (when using 110V input, the maximum power is limited to 1500W)						
	Power Factor		Using AC220V input, when the power supply is 100% full load, the power factor PF value is ≥0.97 (refer to the PF curve diagram below) Using AC1100V input, when the power supply is 100% full load, the power factor PF value is ≥0.98 (refer to the PF curve diagram below)						
	Surge Current		220VAC/45A 110VAC/22A						
Function	PS-ON		PS-on terminal short circuit: no output voltage of power supply PS-on terminal open circuit : The power supply has an output voltage Note: PS-on can control the power output voltage on and off. When the output voltage is turned off, the power supply is in the low power standby state (less than 10 watts), and only the auxiliary power supply circuit is working inside. The cooling fan will operate normally, not the power supply of 220 V input end will be disconnected.						
	Output Voltage Regulation		The output voltage is adjustable throughout the whole process, and the potentiometer V can be adjusted manually. You can also use an external 0-5V or 0-10V to adjust the output voltage (this function needs to be modified)						
	Output Current Regulation		The output current is adjustable. Potentiometer a can be adjusted manually. When the load reaches the current setting value, the power supply will output in constant current mode						
Protection Function	Over Load Protection		The overload protection mode is constant current limiting mode, the lock output current value remains unchanged, and the output voltage decreases with the increase of load						
	Output Short Circuit Protection		After the output short circuit, there is no voltage output, and the output voltage will be automatically restored after the short circuit is removed						
	Output Overvoltage Protection		When the output voltage increases to 115% of the rated voltage, the power will be turned off Output, not automatically restored. To turn off the input voltage, wait for 10 seconds and then turn it on again						
	Overheating Protection		When the temperature of the heat sink of the PWM transistor reaches 85°C±5%, the output voltage is turned off, and the temperature drops to 75°C±5%, and it will automatically recover						
Security And EMC Standard	EMC Standard		MEET EN55022 CLASS B,EN61000-3-2						
	Insulation Impedance		I/P-O/P,I/P-FG,0/P-FG:100M Ohms /500VDC /25ºC/70%RH						
	Leakage Current		≤3.5MA/AC220V						
	Withstand Voltage		Input and output: 3000VAC Input and ground: 1500vac Between output end and housing: 500VAC						
Other	Heat Dissipation Mode		Fan heat dissipation (temperature control automatic speed regulating fan, double fan, internal air blowing mode)						
	Cooling Fan Noise Value		In the indoor environment of about 25 dB, when two fans rotate at full speed, about 42 dB is measured at 50cm away from the power supply						
	Working Temperature		-30 ºC - 45 ºC. To reduce power under high temperature environment, refer to the temperature load drop curve below						
	Size		Length 280mm * width 140mm * height 65mm						
	Weight		2.3kg (excluding package and accessories)						
	Installation Hole Position		The length spacing is 254MM and the width spacing is 122mm. Use external fittings bracket						
Tips	Pay attention to ventilation and heat dissipation during use. Do not install the power supply in a fully sealed box. The heat dissipation outlet of the power supply and the fan inlet cannot be blocked by objects. 2. This power supply is only for indoor use, not rainproof, not waterproof, not dustproof, not for outdoor use, not suitable for high temperature environment above 50 ºC								
MODEL			IPS-PFC2000-24	IPS-PFC2000-36	IPS-PFC2000-48	IPS-PFC2000-60	IPS-PFC2000-72	IPS-PFC2000-110	IPS-PFC2000-150

Output Voltage	24VDC	36VDC	48VDC	60VDC	72VDC	110VDC	150VDC
AC100-185V Input	24V-1500W	36V-1500W	48V-1500W	60V-1500W	72V-1500W	110V-1500W	150V-1500W
AC186-260V Input	24V-2000W	36V-2000W	48V-2000W	60V-2000W	72V-2000W	110V-2000W	150V-2000W

• OVERALL DIMENSION(MM)



IPS-PFC-3000W With Active PFC Series Switching Power Supply



- With active PFC power factor correction function
- AC 110-260v wide voltage input
- Constant pressure and current function
- Control function of the ps-On output voltage
- Multilayer board process (4-layer PCB)

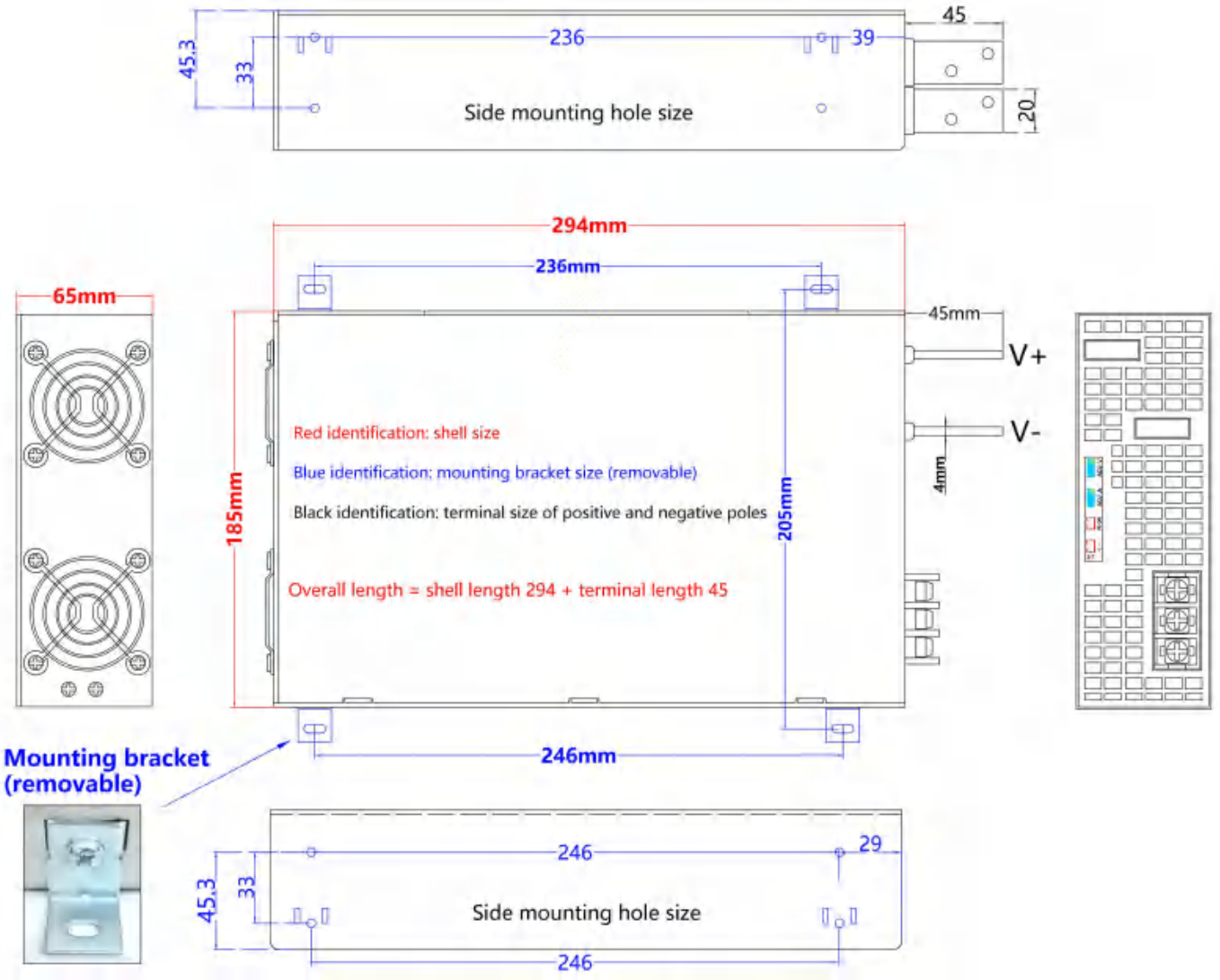
•TECHNICAL PARAMETERS

Brand			IDEALPLUSING					
Product Name			3000W Active PFC Switching Power Supply					
Model			IPS-PFC3000-24	IPS-PFC3000-36	IPS-PFC3000-48	IPS-PFC3000-60	IPS-PFC3000-72	IPS-PFC3000-110
Output Parameter	DC Output Voltage		24VDC	36VDC	48VDC	60VDC	72VDC	110VDC
	AC 220V Input	Output Current	125A	83.3A	62.5A	50A	41.6A	27.2A
		Output Power	3000W	3000W	3000W	3000W	3000W	3000W
		Efficiency	89%	91.2%	91.8%	92%	92.3%	93.4%
	AC 110V Input	Output Current	104A	69.4A	52A	41.6A	34.7A	22.7A
		Output Power	2500W	2500W	2500W	2500W	2500W	2500W
		Efficiency	87.2%	89.3%	89.6%	90.3%	91.4%	91.7%
			Tip: When using the AC110V input, Need to reduce the output power to 2500W					
	Ripple (max)		160mv	200mv	220mv	260mv	280mv	330mv
	Voltage Regulation Range		17-24V	26-36V	33-48V	42-60V	48-72V	75-110V
	Linear Adjustment Rate		±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Load Regulation		±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Voltage Accuracy		±2%	±2%	±2%	±2%	±2%	±2%
	Start / Rise Time		Power-on post-delay 4-5 second start/ 500MS voltage complete					
	Power-Off Keeping Time		16ms(220VAC 80% load) 8ms(220VAC 100% load)					
	Output Wiring Method		Copper strip terminal, M5 nut seat ,Need to use a power supporting copper terminal wiring					
	1. Efficiency This parameter is measured under 100% full load conditions, the efficiency is not a constant value (refer to the following efficiency VS load graph)							
	2. Wave and noise measurement Method: Use 12 "twisted pair, output terminal parallel 0.1uf and 47uf capacitors, the oscilloscope bandwidth is limited to 20 MHz.							

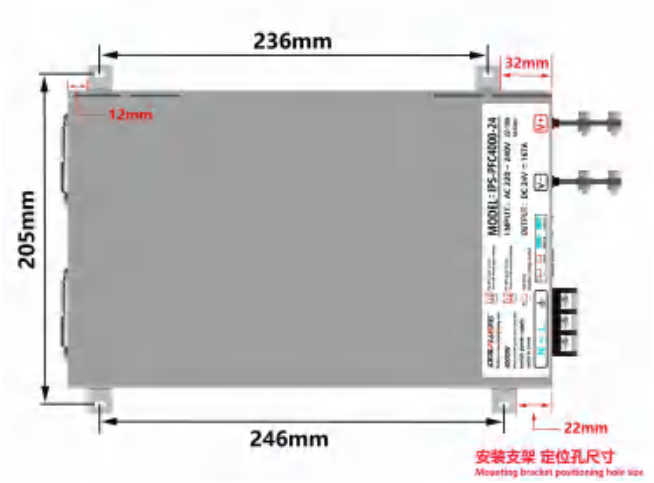
Model			IPS-PFC3000-150	IPS-PFC3000-250	IPS-PFC3000-300	IPS-PFC3000-350	IPS-PFC3000-400
Output Parameter	DC Output Voltage		150VDC	250VDC	300VDC	350VDC	400VDC
	AC 220V Input	Output Current	20A	12A	10A	8.5A	7.5A
		Output Power	3000W	3000W	3000W	3000W	3000W
		Efficiency	94.3%	95%	95%	95%	95%
	AC 110V Input	Output Current	16.6A	10A	8.3A	7.1A	6.2A
		Output Power	2500W	2500W	2500W	2500W	2500W
		Efficiency	92%	93%	93%	93%	93%
			Tip: When using the AC110V input, Need to reduce the output power to 2500W				
	Ripple (max)		400mv	450mv	620mv	620mv	620mv
	Voltage Regulation Range		100-150V	160-250V	190-300V	190-350VV	190-400VV
	Linear Adjustment Rate		±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Load Regulation		±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Voltage Accuracy		±2%	±2%	±2%	±2%	±2%
	Start / Rise Time		Power-on post-delay 4-5 second start/ 500MS voltage complete				
	Power-Off Keeping Time		16ms(220VAC 80% load) 8ms(220VAC 100% load)				
	Output Wiring Method		Copper strip terminal, M5 nut seat ,Need to use a power supporting copper terminal wiring				
	1. Efficiency This parameter is measured under 100% full load conditions, the efficiency is not a constant value (refer to the following efficiency VS load graph)						
	2. Wave and noise measurement Method: Use 12 "twisted pair, output terminal parallel 0.1uf and 47uf capacitors, the oscilloscope bandwidth is limited to 20 MHz.						
Topology	PFC		Interlaced Boost				
	PWM		Staggered parallel Two-transistor forword				
Input Parameter	Input Voltage		AC 110v-240v (wide voltage adaptive)				
	Frequency Range		47-63Hz				
	Input Current (Maximum Value)		Full load 3000W output, use 220VAC input 16A Full of 2500W output, use 110VAC input 26A (When using 110V input, the maximum power is limited to 2500W)				
	Power During Standby		10W				

	Power Facto (PF Value)	Use the AC220V input and power 100% full load,Power factor ≥ 0.96 (refer to PF value in the figure below) Use the AC110V input and power 100% full load,Power factor ≥ 0.97 (refer to PF value in the figure below)
	Input Wiring Method	3PIN KF78 spacing 14mm PCB fence type wiring terminal with protective cover
	Enter A Surge Current	Cold start 220VAC/53A 110VAC/28A

• OVERALL DIMENSION (MM)



IPS-PFC-4000W With Active PFC Series Switching Power Supply



- With active PFC power factor correction function
- AC 110-260v wide voltage input
- Constant pressure and current function
- Control function of the ps-0n output voltage
- Multilayer board process (4-layer PCB)

●TECHNICAL PARAMETERS

Brand		IDEALPLUSING				
Product Name		4000W Active PFC Switching Power Supply				
Model		IPS-PFC4000-24	IPS-PFC4000-36	IPS-PFC4000-42	IPS-PFC000-48	IPS-PFC4000-60
Output parameter	DC Output Voltage(VDC)	24VDC	36VDC	42VDC	48VDC	60VDC
	Output Current(AMPS)	166.7A	111A	95.2A	83.3A	66.6A
	Output Power(WATT)	4000W	4000W	4000W	4000W	4000W
	Efficiency	89.2%	90.6%	91%	91.5%	92%
	Ripple (Full Load)	220mv	280mv	310mv	320mv	380mv
	Maximum Capacitance Load	40000uF	30000uF	22000uF	20000uF	15000uF
	Voltage Regulation Range	17-25V	25-36.5V	29-43V	33-48.5V	41-61V
		The voltage is lowered, the maximum current remains the same, and the output power will decrease				
	Output Over-voltage Protection	32V	48V	64V	64V	80V
		After overvoltage protection, the output is turned off and will not automatically recover Disconnect the input power supply, wait for 5 seconds, and then power on again to recover				
	Load Regulation	±1%	±1%	±1%	±1%	±1%
	Voltage Accuracy	±3%	±3%	±3%	±3%	±3%
	Start / Rise Time	3S/60ms (AC220V input, at full load)				
	Power-Off Keeping Time	8ms (at full load)				
	1. Efficiency This parameter is measured under 100% full load conditions, the efficiency is not a constant value (refer to the following efficiency VS load graph)					
	2.Wave and noise measurement Method: Use 12 "twisted pair, output terminal parallel 0.1uf and 47uf capacitors, the oscilloscope bandwidth is limited to 20 Mhz.					
Input Parameter	Input Voltage Range	AC 200-264V				
	Frequency Range	47-63Hz				
	Input Current (Max)	Full load 4000W output, use 220VAC input 21A				
	Leakage Current	≤2.6MA/AC230V				
	Power Factor (PF Value)	Use the AC220V input and power 100% full load,Power factor ≥ 0.97 (refer to PF value in the figure below)				
	Enter A Surge Current	Cold start 220VAC/55A				
Function	PS-ON	PS-ON Terminal short circuit: power off output voltage PS-ON Terminal open: turn on the output voltage (Default is open) Note: The PS-ON function controls the output voltage on the power supply to turnoff. When the output voltage is turned off, the power is in low power standby state (standby power 17 watts), only only the auxiliary power supply circuit is working, the heat dissipation fan is working properly. It is not disconnected from the 220V input.				
	Output Voltage Regulation	Output voltage adjustable, Adj-V potentiometer manually adjustment)				
	Output Current Adjustment	The output current can be adjusted, the ADJ-A potentiometer manually adjusts, when the load reaches the current setting value, the constant current output (output current remains unchanged, the output voltage is reduced with the load)				
	Auxiliary Voltage Output	This machine provides a 12V-0.3A auxiliary voltage output				
Protect Function	Fan Failure Protection	Either of the two cooling fans does not rotate or the fan is not detected, power supply has no output voltage				
	Overheating Protection	When the internal temperature is too high, activate the overheat protection, turn off the output voltage, and automatically recover after the temperature drops				
	Output Over-voltage Protect	When there is a voltage at the output end that is higher than the overvoltage protection point of the power supply (refer to the overvoltage point parameters in the table above), the overvoltage protection function is triggered. The power supply shuts off the output voltage and will not automatically recover. To disconnect the input power supply, wait for at least 5 seconds and then power on again to recover				
	Input Under-voltage Protection	Input voltage below AC175V without output voltage				
	Output Overload Protection	1.The overload protection method is constant current limiting. When the output is overloaded, the power supply enters constant current mode, keeping the maximum output current constant. The output voltage decreases with the increase of load 2. When a load of about 2.5 times the power is connected, it will exceed the range of the overload constant current limit of the power supply. At this time, it is judged as a short circuit, the power supply is turned off, and it will restart every 3 seconds (burp mode)				
	Output Short Circuit Protection	Short time instantaneous short circuit: Close the output and automatically recover after 3 seconds Long lasting short circuit: Turn off the output and attempt to restart every 3 seconds (burp mode)				
EMI	Conducted	CISPR32/EN55032		150kHz-30MHz		CLASS A
	Radiated	CISPR32/EN55032		30MHz-1GHz		CLASS A
	Harmonic Current	EN61000-3-2				CLASS A
	Voltage Flicker	IEC/EN61000-3-3				

EMS	ESD	IEC/EN61000-4-2 Contact ±4KV/Air ±8KV	perf. Criteria A
	Radiated Susceptibility	IEC/EN61000-4-3 3V/m	perf. Criteria A
	EFT/Bures	IEC/EN61000-4-4 ±2KV	perf. Criteria A
	Surge	IEC/EN61000-4-5 line to line ±2KV/line to ground ±4KV	perf. Criteria A
	Conducted Susceptibility	IEC/EN61000-4-6 10Vr.m.s	perf. Criteria A
	Voltage Dips And Interruptions	IEC/EN61000-4-11 0%, 70%	perf. Criteria B
	1. The power supply should be considered as a part of the components within the electrical equipment, belonging to accessories, rather than an independent device 2. When conducting radiation testing, the test sample should be placed on a metal plate with a length of 80cm, width of 60cm, and thickness of 2mm for testing. The power supply should cooperate with the load equipment to conduct overall electromagnetic compatibility related tests.		
Safety Standard	Insulation Resistance	I/P-O/P,I/P-FG,0/P-FG:100M Ohms /500VDC /25ºC/70%RH	
	Withstand Voltage	Input and output : 2500VAC nput and ground : 1500VAC Output end and ground : 500VAC	
	Operating Temperature	-30-40°C can be used in 100% full power, more than this temperature range to reduce the output power (refer to the temperature drop curve below)	
Environment	Storage Temperature, Humidity	-40~+55ºC, 20-90%RH	
	Altitude	Only used in 2500m altitude	
	Heat Dissipation Mode	Fan heat dissipation (temperature control automatic speed regulating, double fan, internal air blowing mode)	
Other	Cooling Fan Noise Value	In an indoor environment of around 20-25 decibels, when the two fans rotate at full speed, a measurement of around 50 decibels is made at a distance of 1 meter from the power supply	
	Shell Size	294mm long (45mm extension outside the terminal) * Width 185mm * height 65mm	
	Install Fixing Hole	(Horizontal installation) length spacing: 236mm width spacing: 205mm (reference dimension)	
	Weight	Weight 3.8kg	
Warning	1. Pay attention to ventilation and heat dissipation during use. Do not install the power supply in a fully sealed box. The heat dissipation outlet of the power supply and the fan inlet cannot be blocked by objects. 2. For indoor use only. This type of power supply is not rainproof, waterproof, or dustproof, and is not suitable for outdoor use 3.When the altitude exceeds 2000 meters (6500 feet), the ambient temperature decreases proportionally every 5ºC/1000m 4. Multiple power sources cannot be used in parallel		

• OVERALL DIMENSION(MM)