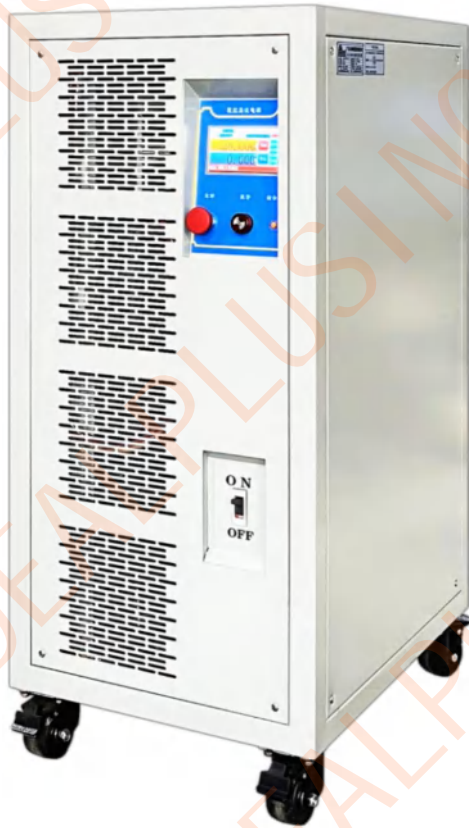# High Power High Frequency DC Switching Power Supply

IPS-ATDH100030

1000VDC 30A 30KW AC DC Power Supply

Product Instruction

Catalogue

Thank you very much for choosing our products. Please read this manual carefully before use!

This comprehensive guide provides detailed operating instructions and essential safety precautions for utilizing electronic power supplies. To prevent any potential malfunctions, it is imperative that you thoroughly review this manual before engaging with the power supply equipment, ensuring that you employ it in a manner that adheres to the specified guidelines.

Kindly ensure that this manual is handed over to the end user for their reference and safe operation of the equipment.

Preface

Please read this manual carefully prior to use and keep it properly for future use to ensure correct installation and operation of this power supply. For equipment matching customers, please give this manual accompanying with the equipment to the end user of this power supply.

Open and check:

When you open the package, please check carefully whether the model and rated values on the nameplate of this machine are identical to your order. There are your ordered machine, keys, product qualification certificate, user operation manual and warranty card within the package.

After opening the package, please check whether any damage is caused during transportation. If you find some omissions or damage, please contact our company or your supplier rapidly to solve the problem.

First use:

The user who uses this product for the first time should read carefully this manual first. If you have any doubt about some functions and performances, please consult with our technical support staff to obtain the helps useful for correct use of this product.

We are dedicating ourselves to continuously improve the power supply, so the materials provided by our company are subject to alteration without notice.

Special Statement

Unauthorized conversion or replication of this entire manual or any part of it is prohibited.

This manual is subject to change without notice.

Our company has as possible as guaranteed the content in this manual correct. If you find any error or omission, please contact the manufacturer or the distributor.

Our company will not take any responsibility for any loss caused by the application of this manual or any direct or indirect loss related to this manual.

The power supply number is the file code of our company. The user must keep it properly so that we can offer you after service well.

The following symbols are applied in this manual to represent important information. The user should perform operations according to the explanation indicated in these symbols.

⚠️ WARNING	Ignoring this indication may cause individual injuries or severe injuries and even death due to incorrect operation. The user must operate this product complying with the explanation in this symbol.
⚠️ NOTICE	Ignoring this indication may cause individual injuries or device damages due to incorrect operation. The user must operate this product complying with the explanation in this symbol.

Why Choose DC Power Supply

In modern electronic equipment and laboratory applications, the choice of power supply directly affects the performance of the equipment and the accuracy of the experiment. With its excellent flexibility, precise control and diverse application scenarios, the DC adjustable power supply has become an important tool for engineers and researchers in conducting experiments and product development.

First of all, the DC adjustable power supply allows users to adjust the voltage and current output according to specific needs, thereby achieving accurate testing and charging operations of electronic components. Its stable output performance and built-in protection functions ensure the safety and reliability of the equipment in various environments.

In addition, the visual interface of the DC adjustable power supply enables users to monitor the output status in real time, which facilitates timely adjustment and optimization of experimental conditions, which is particularly important in complex experimental processes. Whether in electronic component aging testing, laboratory research and development, or in industrial production, the wide adaptability of DC adjustable power supplies to power demand and high cost performance make it an ideal choice.

In summary, choosing a DC adjustable power supply can not only improve the efficiency and accuracy of the experiment, but also provide strong support for scientific research and industrial innovation.

✅ Top 10 Reasons

- Low noise: With low power supply noise, it is suitable for powering sensitive equipment.
- Easy to operate: The modern design is friendly and provides convenient settings and reading methods.
- High-purity output: The high-end model has excellent output characteristics and is suitable for high-precision applications.
- Data monitoring: Equipped with a data interface, it can monitor and record current and voltage changes in real time.
- Adjustable output: The voltage and current can be flexibly adjusted as needed to adapt to different applications.
- Safety protection: Equipped with over-voltage, over-current and short-circuit protection functions to improve safety of use.
- Meet experimental needs: Flexibly respond to different power supply conditions and support diversified R&D projects.
- Improve efficiency: Quickly and easily adjust parameters, reduce equipment configuration time, and improve work efficiency.
- Precise control: Provide stable output and precise voltage and current settings to ensure experimental reliability.
- Widely applicable: It can be used for a variety of equipment tests and experiments, such as battery charging and component characteristic analysis.

Why Choose IDEALPLUSING

IDEALPLUSING stands out for its excellent service and product quality, which is why many customers choose us.

● **Flexible MOQ and discounts**

Minimum MOQ: 1

Certified factories: 100+

Delivery time: about 7 days

Bulk discount: more than 30%

● **Local production team**

We have 100+ suppliers in China to meet all kinds of power supply needs.

● **Strong brand support**

IDEALPLUSING provides exclusive power supply design, certified production facilities and rich experience to help your brand stand out in the target market.

● **Rich product information**

At IDEALPLUSING, we not only provide a wide range of product selection, but each product page also contains detailed information such as product specifications and pictures. This helps consumers make informed purchasing decisions.

● **Excellent customer service**

IDEALPLUSING attaches great importance to customer experience and has established an efficient customer support system. Whether it is through live chat, phone support or email, customer issues will be responded to and resolved in a timely manner. This efficient service will make customers feel respected and valued, thereby enhancing their overall purchasing experience.

- **Secure payment methods**

When purchasing online, security is essential. We at IDEALPLUSING provide a variety of secure payment methods, including L/C, T/T, D/P, Western Union, Paypal, Money Gram, etc., to ensure that your payment information is effectively protected, so that you can feel more at ease when purchasing.

- **Fast and reliable logistics and delivery**

IDEALPLUSING cooperates with many logistics companies to ensure fast and safe delivery services. Users can track the order status and understand the transportation status of the product in real time, and we will also promptly feedback the transportation situation to customers. Timely delivery not only improves user satisfaction, but also increases the credibility of the brand.

- **Fast delivery**

Thanks to advanced production equipment, we can provide the fastest delivery time without affecting quality.

- **After-sales service**

We provide warranty policies, ask customers about their experience in use in a timely manner, ensure customer satisfaction, and actively safeguard customer rights.

IDEALPLUSING aims to create a better user experience for customers and improve the quality of our cooperation with partners. It is not just an online purchasing website, but also a platform dedicated to providing customers with a high-quality experience. In the future, IDEALPLUSING is expected to continue to lead the industry and become the preferred platform for more consumers.

Main Team

Our Uniqueness

● Dare to innovate

● Never stop pursuing perfection

● Focus on the power supply field

● Actively respond to various challenges

Our Overseas Sales

Charis Liu

Wechat Code

Whatsapp

Kim Han

Wechat Code

Whatsapp

Victoria Liu

Wechat Code

Whatsapp

01

Safety Precautions

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DC Adjustable Power Supply

Safety Precautions

You are appreciated to use our product! We call your attention to the following matters so that you can use our product correctly

1. Before The Installation

⚠️ WARNING	Please do not use the product if the power supply is damaged or lacks any part. There will be the risk of injury.

During The Installation

⚠️ WARNING	The product can not be installed in the environment with fibres, scrips, spills, scraps or metal shivers around. Otherwise fire alarm may be arisen!
⚠️ NOTICE	Please notice the installation location, ensure the effect of heat dissipation and ensure that the temperature around the power supply does not exceed the specification value.

During The Wiring

⚠️ WARNING	The construction should be performed by professional electrical engineering staff. Otherwise, there will be the risk of electric shock!
	Please confirm that the power supply is turned off prior to wiring. Otherwise, fire alarm may be arisen!
	The input power line can not be connected to the output terminal. Otherwise, fire alarm may be arisen!

Before The Electrification

⚠️ WARNING	Please confirm that the voltage is identical to the rated voltage of the power supply and that the connection locations of input and output are correct and notice whether there is short circuit in the peripheral circuitry and whether the connected line is firm. Otherwise, damages and other dangers may be caused to the power supply.

⚠️ WARNING	The power supply must be electrified only after the door is close. Otherwise, electric shock may be caused!
⚠️ NOTICE	The voltage resistance test is unnecessary for the power supply because it has been tested in the factory. Otherwise, accidents may be caused!

After The Electrification

⚠️ WARNING	Do not open the cover plate when electrified or running in case of electric shock.
⚠️ WARNING	Do not touch the power supply and the peripheral circuitry with wet hands. Otherwise, there will be the risk of electric shock!
⚠️ WARNING	Do not touch the wiring terminals. Otherwise, there will be the risk of electric shock!
⚠️ NOTICE	The power supply should run for more than 5 minutes with no load at the beginning of electrification and then run with load to ensure that the supply enters the stable running after warm-up

During The Running

⚠️ WARNING	Please do not be close to the vent or touch the surrounding of the vent to feel the temperature. Otherwise, burn may be caused!
⚠️ WARNING	For unprofessional technical staff, please do not detect the signals during the running. Otherwise, personal injury or device damage may be caused!
⚠️ NOTICE	Avoid foreign matters falling into the device during the running of the power supply. Otherwise, device damage may be caused!
⚠️ WARNING	Do not touch the wiring terminals. Otherwise, there will be the risk of electric shock!
⚠️ WARNING	The power supply should run for more than 5 minutes with no load at the beginning of electrification and then run with load to ensure that the supply enters the stable running after warm-up

2.During the power outage

Perform the operation strictly in the sequence of disconnecting the output switch first and then disconnecting the input switch and cutting off the input power! Otherwise, there will be the risk of electric shock and device damage!

During The Maintenance

⚠️ **WARNING**	For staff not trained professionally, please do not perform the maintenance and service on the power supply. Otherwise, personal injury or device damage may be caused!
⚠️ **WARNING**	Please do not perform maintenance and service on the power supply with electrification. Otherwise, there will be the risk of electric shock!
⚠️ **NOTICE**	Please confirm that the maintenance and service is performed after the capacitor inside the power supply is discharged completely (confirmation can be made by measuring the voltage at the output end of the power supply). Otherwise, personal injury may be caused!
⚠️ **NOTICE**	When moving products, use the correct lifting tool to prevent damage to the device.
⚠️ **NOTICE**	If the device is missing components, do not install and run
⚠️ **NOTICE**	When handling products, we should grasp the force at the bottom and not use the handle as the whole force point. to prevent the handle from rupturing and damaging the equipment.
⚠️ **NOTICE**	Please do not stack debris on the power supply to prevent debris from entering the machine and poor heat dissipation.
⚠️ **NOTICE**	To maintain good ventilation, the exhaust vents must not be close to other items and walls. Prevent bad heat from burning out components.
⚠️ **NOTICE**	DC power supply is high-frequency precision equipment, do not drop, or strong impact.
⚠️ **NOTICE**	Please use it in the following environment to avoid malfunction.

⚠️ NOTICE	If it is used in a special environment, please explain when ordering

Prevent Damage

⚠️ NOTICE	The voltage applied to each terminal can only be the voltage specified in the manual. Otherwise, it will burst, damage, etc.
⚠️ NOTICE	Confirm that the cable is connected to the correct terminal, otherwise damage will occur.
⚠️ NOTICE	Always ensure proper wiring of the positive (red), negative (black) pole output.
⚠️ NOTICE	Confirm the correct input voltage and number of phases.
⚠️ NOTICE	Do not touch the terminals on the inner panel shortly after power-on or power-off, to prevent high voltage or capacitor residual high voltage from damaging the components.

3. Installation Environment & Electrical Installation Illustration

Surroundings	Ambient temperature	-10℃~ +45℃
	Ambient humidity	85%RH or less (non-condensing)
	Storage temperature	-20℃~+65℃
	working environment	Indoor (no strong corrosive gases, flammable gases, oil mist, conductive dust)
	Altitude, vibration	Below 2000m above sea level. 5.9m/s2[0.6G]

Installation environmen:

● Ambient temperature: The ambient temperature affects the life of the power supply greatly. The

running environment temperature of the power supply is not allowed to exceed the permissible

temperature range (0℃~45℃).

● The power supply in operation can generate much heat easily, so there should be enough

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space for heat dissipation around the supply.

- Please do not install the supply at the location that is uneasy to vibrate. The vibration should not be more than 0.6G. It should be noticed especially to keep it away from devices such as the punch.
- Installation at the location with direct sunlight or water droplet or at the moist location should be avoided.
- Installation at the location with corrosive, flammable or explosible gases in the air should be avoided.
- Installation at the location with oil contamination, much dust or much metal dust should be avoided.
- When power is on or running, please do not open the cover to prevent electric shock.
- When wiring or checking, turn off the power, and after 10 minutes, check if the residual voltage disappears with a multimeter or the like.
- The electronic power supply unit must be grounded.
- Work including wiring or inspection should be performed by professionals.
- Wiring should be performed after installation. Failure to do so may result in electric shock.
- Do not operate the switch knob with wet hands to prevent electric shock.
- For the cable, do not apply excessive pressure to it to damage it, otherwise it will cause electric shock.

4. Transport Conditions

- When handling products, use the correct lifting tool to prevent damage to the equipment.
- If the device lacks a component, do not install the run.
- When handling the product, hold the bottom of the force, do not take the handle as the full force point, to prevent the handle from breaking and breaking the equipment.
- Please do not pile up sundries on the power supply equipment to prevent sundries from entering the machine and poor heat dissipation.

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- Keep good ventilation conditions, and the exhaust outlet shall not be close to other articles and walls. To prevent the poor heat dissipation from burning out the components.

- Electronic switch power supply is high frequency precision equipment, do not fall, or strong impact.

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Product Operation Guide

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DC Adjustable Power Supply

Installation

1. Connect the output terminal on the back of the panel according to the working current requirements (note: red is positive and black is negative. Pay attention to safety, high voltage is dangerous! Do not install with power on).

2. After connecting the output terminal, please cover the protective cover to avoid electric shock accidents caused by high voltage exposed parts.

3. Connect the three-phase AC 380V power cord as required, and be sure to ground the ground terminal well (the yellow-green two-color wire is the ground wire) to ensure safety.

Operation process (local control)

1. Working parameter setting:

1.1 Turn on the main power switch, the touch screen display and operation interface will light up after power on, and the system will automatically enter the standby state, as shown below:

1.2 In the standby interface, click the run parameter button to enter the programming interface, as shown below:
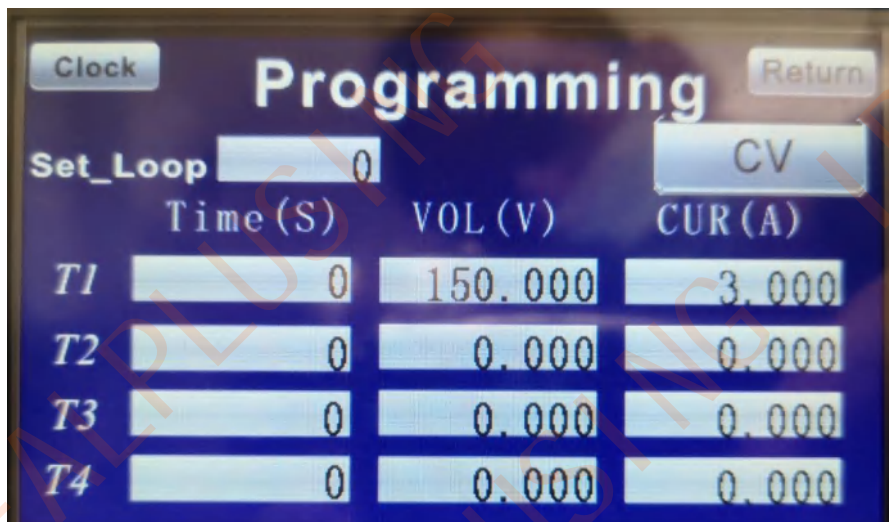
1.3 When you press the corresponding text box, the following picture will pop up:

1.4 According to the work requirements, input the corresponding digital parameters on the keyboard and save them. When the T1 time is set to 0, for long-term uninterrupted work, enter the voltage and current parameters in the first line; when there is time after T, the system will switch the current and voltage within the specified time. At the same time, select the constant voltage or constant current mode. When all working parameters are set, save and click the return icon, the system will return to the standby main interface.

Output Power Display
Cycle Times Display
Output Operating Voltage Display
Working Time Display
Start Button
Communication Connection Status Display
User Login Interface
Operation Parameter Setting and Programming Interface Entry
User Parameter and Communication Setting Interface Sntry
Home Parameter Setting Interface Entry
Voltage and Current Working Curve Display
Stop button
Output working current display
Constant Voltage/Constant Current Working Status Display

2. Press the start button on the standby main interface and the power supply starts working.

3. The current operation mode or error information will be prompted in the status bar, the current voltage will be displayed in the voltage bar, and the current will be displayed in the current bar. And the current output power will be displayed. The running time will prompt the current running time. When an error occurs during operation, the error type will be prompted in the status bar. And an audible and visual alarm will be issued.

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4. During operation, if you need to stop, just press the stop button and the system will stop automatically.

Remote communication settings

1. Connect the RS-485 communication interface.

2. User login. To set the communication parameters, you must first log in as a user to obtain setting permissions. Click the user login button to enter the following login interface:

Click this user leavel to go to the next page!

Click here to go to next page!
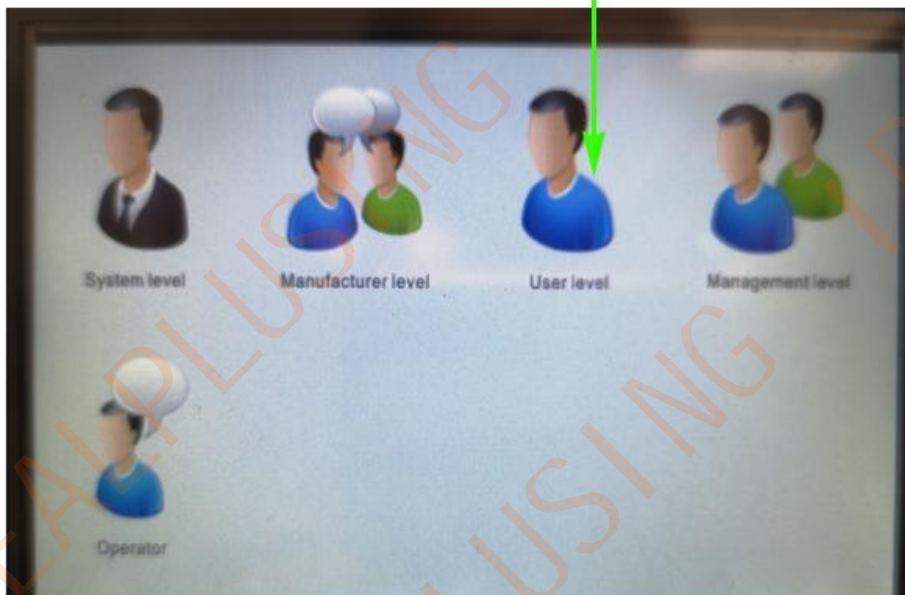
After the login display
Click the return to the
main interface!

Pass word is "0"

3.On the main interface, click the user parameter button to enter the user parameter setting interface, as shown below:
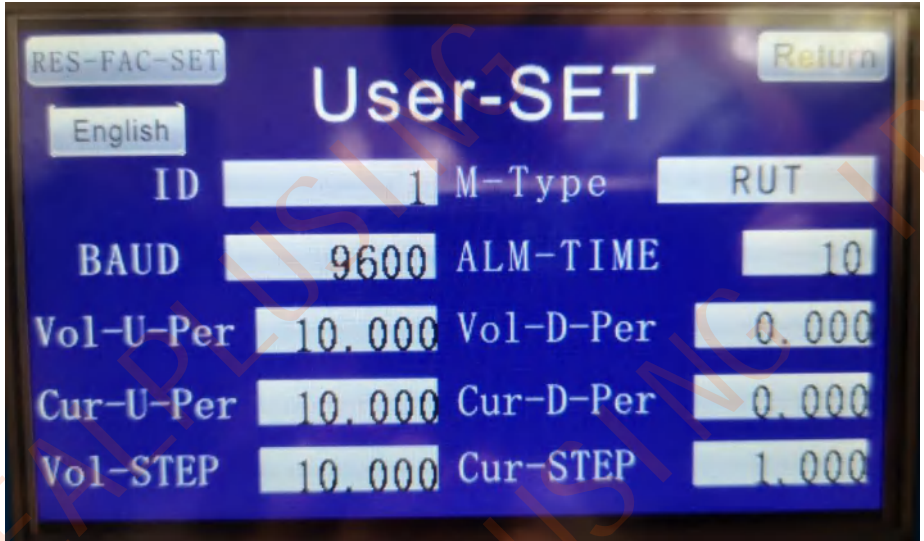
Each parameter of communication can be set in this interface.

1) local ID: in case of multi machine communication, the setting of the sub machine site indicates the current location. Generally, this value does not exceed 255.

2) Communication type: This device supports two communication modes: RUT and ASCII.

3) Baud rate, which is the data transmission and reception speed during communication. It is defined as the larger the bit / S value, the faster the communication, but the more susceptible to interference at the same time, so 9600 is set here.

4) Sound and light alarm time. This is the duration of the alarm. When it is set to 0, no alarm is issued. When the value is greater than 0 and less than 500, the alarm time is the value. The unit is S. When this value is set greater than 500, the alarm will always be issued.

5) Voltage loading rate. This value sets the step when voltage is uploaded. The unit is xx.xxx V / 10ms. When it is set to 0, the ladder upload mode is not used, but the set value is given as fast as possible. Will have a greater impact on the equipment.

6) Voltage unloading rate. This value sets the load reduction step during shutdown. The unit is xx.xxx V / 10ms. When it is set to 0, unloading is not adopted, but it becomes zero load at the fastest speed.

7) Current a loading rate and current load reduction rate are the same as voltage, but the loading mode is different. The unit is xx.xxx A / 10ms.

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8) voltage step rate, this value is the rate of change of the voltage when the current set voltage needs to be adjusted manually at will. Unit is xx.xxx V

9) The current A step rate is the same as the voltage step rate. Unit is xx.xxx A

Communication Protocol

The unit uses MODBUS RTU format, 8 data bits, no parity, 1 stop bit

I. COMMUNICATION PROTOCOL STRUCTURE

Name	Meaning	Statement
Start	Start of correspondence	Quiet periods of at least 3.5 bytes of transmission time
Address	Communication address	The communication address, i.e. the site of the device, can be set via the operator interface to occupy a byte length
CMD	Command	One byte, common commands:03H (read register), 06H (read single register), 10H (write multiple registers)
DATA(n+1) ...... DATA(0)	Data content	N words = 2N bytes N<100
CRC	Checksum	1 word = 2 bytes
END1	Ending	Quiet period of at least 3.5 bytes transfer time

1. READ MULTIPLE REGISTERS

Upper unit to power command (read power supply voltage current, power)

Address		01H
CMD		03H
Data start address	High	00H
	Low	00H
Number of read registers (word length)	High	00H
	Low	06H
CRC Low		C5H
CRC High		C8H

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The power supply responds to the upper unit when correct

Address		01H	
CMD		03H	
Number of data bytes	High	0CH	
Number of read registers (word length)	High	00H	
	Low	06H	
0000H Address data	High	00H	
	Low	00H	
0001H Address data	High	00H	
	Low	00H	
0002H Address data	High	00H	
	Low	00H	
0003H Address data	High	00H	
	Low	00H	
0004H Address data	High	00H	
	Low	00H	
0005H Address data	High	00H	
	Low	00H	
CRC Low	xxH		
CRC High	xxH		

The power supply responds to the uplink when an error occurs

Address	01H
CMD	83H
Exception Code	02H
CRC Low	xxH
CRC High	xxH

2. Upper computer writes multiple registers

Address		01H
CMD		10H
Data start address	High	00H
	Low	07H
Number of write registers	High	00H
	Low	05H
Data bytes		0AH
0007H Address data	High	00H
	Low	01H
0008H Address data	High	86H
	Low	A0H
0009H Address data	High	00H
	Low	00H
000AH Address data	High	27H
	Low	10H
000BH Address data	High	00H
	Low	00H
CRC Low		29H
CRC High		9EH

When the write is correct, the power supply responds to the upper unit

Address		01H
CMD		10H
Data start address	High	00H
	Low	07H
Number of registers to be written	High	00H
	Low	05H
CRC Low		xxH
CRC High		xxH

Power supply responds to the upper unit after a write error

Address	01H
CMD	90H
Exception Code	03H
CRCLow	xxH
CRCHigh	xxH

List of registers:

Address	Name	
00H	Power Supply Voltage High 16-bit Register	Read only Voltage =
01H	Supply Voltage Low 16-bit Register	High 16*65536 + Low 16
02H	Power Supply Current High 16-bit Register	Read only Current =
03H	Power Supply Current Low 16-bit Register	High 16*65536+Low 16
04H	Power supply power high 16-bit register	Read only Power =
05H	Power Supply Power Low 16-bit Register	H16*65536+L16
06H	Power Supply Status Register	Read only: see later section
07H	Set voltage high 16-bit register	Read/Write
08H	Set voltage low 16-bit register	
09H	Set current high 16-bit register	Read/Write
0AH	Set current low 16-bit register	
0BH	Upper computer command register	Read/Write
0CH	Set the programming loop	
0DH	Set up the programming operation mode	
0EH	Set the programming time for the 1-high 16-bit register	
0FH	Set the programming time for the 1-low 16-bit register	
10H	Set the programming time for the 2-high 16-bit register	
11H	Set the programming time for the 2-low 16-bit register	

12H	Set the programming time for the 3-high 16-bit register	
13H	Set the programming time for the 3-low 16-bit register	
14H	Set the programming time for the 4-high 16-bit register	
15H	Set the programming time for the 4-low 16-bit register	
16H	Set the programming voltage 1 high 16-bit register	
17H	Set the programming voltage 1 low 16-bit register	
18H	Set the programming voltage 2 high 16-bit register	
19H	Set the programming voltage 2 low 16-bit register	
1AH	Set the programming voltage 3 high 16-bit register	
1BH	Set the programming voltage 3 low 16-bit register	
1CH	Set the programming voltage 4 high 16-bit register	
1DH	Set the programming voltage 4 low 16-bit register	
1EH	Set the programming current 1 low 16-bit register	
1FH	Set the programming current 1 high 16-bit register	
20H	Set the programming current 2 low 16-bit register	
21H	Set the programming current 2 high 16-bit register	

22H	Set the programming current 3 low 16-bit register	
23H	Set the programming current 3 high 16-bit register	
24H	Set the programming current 4 low 16-bit register	
25H	Set the programming current 4 high 16-bit register	
28H	The upper computer computer changes the mode	
29H	Soft start, soft stop time x (10ms)	
2BH	Total running time is high for 16-bit registers	
2CH	Total running time is low for the 16-bit register	
2DH	Countdown-high 16-bit register	
2EH	Countdown to a low-16-bit register	

3. Status Register Explanation Definition

BIT15	BIT14	BIT13	BIT12	BIT11	BIT10	BIT9	BIT8
BIT7	BIT6	BIT5	BIT4	BIT3	BIT2	BIT1	BIT0
1:	1:	1: Main Board	1: Low-Voltage	1:Lack of phase	1:Over Temperature	1: CV	1: ON
0:	0:	0: Na	0: Na	0: Na	0:Na	0: CC	0: OFF

4. Command register definition

	0xff00	The upper machine is turned on
Upper computer command register	0x0000	On the machine
	0x0082	Simulate and press the touch screen to boot up

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	0x0081	Simulate the press for the touchscreen shutdown

When a command only sets the voltage or current, the power supply will automatically switch to the corresponding working mode and start up according to the set value of the upper computer, e.g. when only a non-zero number is written to the voltage register, the power supply will automatically switch to the voltage regulator mode and start up.

Example Operation

Note: In this system, voltage value, current value, power value, set voltage value, set current value, program voltage, current, time, total running time, countdown are all 32-bit registers, two words long, four bytes. Please note that the data is in big-endian format, with the high bit first and the low bit last. The following examples all use ID 1

Read the measured value of the power supply (read voltage (0x0000), current (0x0002), power (0x0004)) (PLC communication must correspond to the base address)

Support 0x03 function code

The default readback value is 3 digits after the decimal point. If 1, it will return 1000

Send address Function code Starting address Word length CRC16 check

01 03 00 00 00 06 C5C8

Correct return

Address Function code Return bytes Voltage value Current value Power value CRC16 check

01 03 0C 00 01 84 F9 00 00 00 00 00 00 00 00 BF E5

As shown above, voltage = 0x00007B3A (hexadecimal) = 99577mV = 99.577V

If you use a direct method, the four bytes above 00, 01, 84, F9 correspond to decimal 0, 1, 132, 249

Result = (0*16777216) + (1*65536) + (132*256) + 249 = 99577mV = 99.577V

The result values   of current and power are the same algorithm, and the unit of function is 0.01Kw

Read a value (voltage) alone

Send address function code starting address word length CRC16 check

01 03 00 00 00 02 C4 0B

Correct return

Address function code return number of bytes voltage value CRC16 check

01 03 04 00 01 86 8C C8 36

Result = 0x0001868C = 99980mv = 99.980V

Start the power supply

(1) To start the power supply, first set the target voltage or current, then write the start command.
Of course, the voltage, current, and start command can also be written together.

(2) Set the soft start time (write 10S = 10000ms because the instruction unit is 10ms, so the write
number is = 10000/10 = 1000)
Sent by the host computer
Address Function code Register address Time data CRC16 check
01 06 0029 03 E8 58 BC
Hexadecimal 0x03E8 = 1000 (decimal)
Correct return
01 06 0029 03E8 58 BC
Indicates successful writing.

(3) If you need to set 100.000V 0A now
100.000V=100000mv=0x00 01 86 A1 (hexadecimal)
Highest byte=100000/16777216=0x00, next byte=(100000%16777216)/65536=0x01
Highest byte=100000%65536/256=0x86, next byte=(100000%256)/65536=0xA0
Send the following information
Address Function code Starting address Word length Number of bytes Set voltage value Set
current value CRC16 check
01 10 0007 0004 08 00 01 86 A0 00 00 00 00 CC CE
Correct return
Address Function code Starting address Word length CRC16 check
01 10 0007 0004 70 0B
Indicates that the setting value was written successfully

(4) Write the startup command
Address Function code Register address Power-on command CRC16 check
01 06 00 0B FF 00 B9 F8
Correct return

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Address Function code Register address Command data CRC16 check

01 06 00 0B FF 00 B9 F8

The power supply will start at this time

(5) Turn off output

Write the output turn-off command

Address Function code Register address Power-off command CRC16 check

01 06 00 0B 00 00 F8 08

Correct return

Address Function code Register address Command data CRC16 check

01 06 00 0B 00 00 F8 08

Indicates that the output turn-off command is successful, and the power supply will turn off the output at this time.

03

Product Introduction

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DC Adjustable Power Supply

Product Introduction

Description

1. The appearance structure of this product uses our company's patented design. The product has a beautiful appearance, a solid and firm structure, and the shell surface is powder-coated, which is strong and corrosion-resistant. The bottom of the product is equipped with rollers for easy movement.

2. This power supply adopts the world's most advanced control system PWM technology and a stable and reliable circuit topology structure design control circuit, and is equipped with German imported Infineon brand module (IGBT) control. The main transformer is wound with nanocrystalline magnetic core and pure copper wire, which has good heat dissipation, sufficient power, low power consumption, long-term durability and stable performance. The main components such as rectifier bridge and rectifier tube are made of high-quality materials from all over the world, and the power supply adds our company's advanced LC filtering patented technology. It has the characteristics of small output ripple coefficient and strong anti-interference ability; the output voltage and current can be adjusted in a wide range, the voltage and current are stable and accurate, and the detection data is accurate.

3. You can choose the voltage stabilization or current stabilization working mode, and the voltage and current can be set arbitrarily from 0 to the maximum value. It has automatic protection functions for faults such as phase loss, overheating, overvoltage, overcurrent, and short circuit.

4. Intelligent touch screen display and control interface, the interface is intuitive and easy to operate. Voltage, current and power are accurately displayed with 3 decimal points. Programmable, multiple functions and parameter settings can be performed. The power supply has built-in four-stage timing, which can execute up to 4 sets of different voltage, current, delay time and running time settings at a time, and can be cycled continuously for 99999 times.

5. It has RS-485 remote communication interface and supports RTU and ASCII remote communication protocols. Computers, host computers and other software can be configured for

remote control and monitoring. Multiple units can be networked and controlled in parallel.

6. The internal control circuit board is completely sealed and strictly isolated from the environment to prevent acid mist or dust pollution and short circuit caused by insects, which greatly improves the safety and service life of the product.

7. The product is generous in materials, sufficient in power, and has a large design margin for electronic components and important parts, which can ensure that the product can maintain full load and long-term continuous operation.

Product scope of application

This power supply is a high-power high-frequency DC switching power supply. Our product design can adapt to various loads and scenarios, such as electronic load testing, various electronic and electrical product experiments, tests, aging, university laboratories and scientific research units or testing institutions experimental test equipment, etc....

Model Information

IPS-ATDHXXXYYY

- For Example : IPS-A T D H XXX YYY
- IPS-IDEALPLUSING BRAND
- A--AC
- T- TO
- D—DC
- H-High voltage or current
- XXX-The max output Voltage (V)
- YYY-The max output Current (A)

04

Technical Parameter

IDEALPLUSING

DC Adjustable Power Supply

Technical Parameter

Product Name Specification		1000V / 20A DC power supply
Input Characteristics	Input Mode	Three-phase 3-wire + grounding wire
	Voltage / Frequency	AC 380V±10% 50Hz-60Hz
	input current	32.1A
Output Characteristic	Power Rating	30KW
	Output Voltage	DC 0-1000V is continuously adjustable
	Output Current	DC 0-30A is continuously adjustable
	Voltage Output Accuracy	±1%FS within 0-1000V
	Current Output Accuracy	±1%FS within 0-20A
	Source Effect	≤0.2%FS
	Load Effect	≤0.2%FS
	Show Resolution Ratio — Voltage	0.1V
	Show Resolution Ratio — Current	0.01A
	Ripple factor (Vrms)	≤3%FS
	Work Efficiency	≥90%
	Power Factor	≥0.95
	Performance Characteristics	You can choose constant voltage or constant current working mode, the voltage and current can be set arbitrarily from 0 to the maximum value. It can work continuously for a long time.
Output Display		Touch screen display and control interface, output voltage, current, power, precise digital display.
Communication interface		RS-485, supports Modbus, RTU and ASCII communication protocols
Protected Mode		It has the automatic protection function of phase deficiency, overheat, overvoltage, overcurrent, short circuit and other faults.
Safe Characteristic	Insulation Resistance	≥20MΩ
	Pressure Resistance	2000VDC test 60S, no flying arc, breakdown.
Work Environment	Ambient Temperature	-15℃ ~ 45℃
	Ambient Humidity	≤90% (no condensation)
Protection Level		IP20
Cooling Method		Forced air cooling
Dimensions		L660*W480*H700 mm

05

Product customization case

IDEALPLUSING

DC Adjustable Power Supply

Product customization case

Customize Power Supply

Model	Application	Input Voltage	Output Voltage	Output Current	Output Power	Display	Machine Size-MM
IPS-ATDH430000	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~4VDC	0~30000A	12KW	Touch Screen	L750*W520*H690
IPS-ATDH45000	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~4VDC	0~50000A	15KW	Touch Screen	L750*W520*H1150
IPS-ATDH52000	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~5VDC	0~2000A	10KW	Touch Screen	L750*W520*H690
IPS-ATDH8600	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~8VDC	0~600A	0.48KW	Touch Screen	L600*W380*H280
IPS-ATDH10500	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~10VDC	0~500A	5KW	Touch Screen	L750*W450*H520
IPS-ATDH10600	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~10VDC	0~600A	6KW	Touch Screen	L580*w380*H280
IPS-ATDH10800	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~10VDC	0~800A	8KW	Touch Screen	L750*W450*H520
IPS-ATDH12400	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~12VDC	0~400A	0.48KW	Touch Screen	L600*W380*H280
IPS-ATDH12500	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~12VDC	0~500A	6KW	Touch Screen	L680*W380*H280
IPS-ATDH12900	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~12VDC	0~900A	10.8KW	Touch Screen	L680*W450*H520
IPS-ATDH121000	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~12VDC	0~1000A	12KW	Touch Screen	L750*W520*H1150
IPS-ATDH151000	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~15VDC	0~1000A	15KW	Touch Screen	L750*W450*H520
IPS-ATDH152000	Customize	1-phase 110/220VAC or 3-phases 380/450VAC	0~15VDC	0~2000A	30KW	Touch Screen	L750*W520*H1150

IPS-ATDH16750	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~16VDC	0~750A	12KW	Touch Screen	L680*W450*H520
IPS-ATDH161000	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~16VDC	0~10000A	160KW	Touch Screen	L750*W520*H1700
IPS-ATDH20400	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~20VDC	0~400A	8KW	Touch Screen	L680*W450*H520
IPS-ATDH24200	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~24VDC	0~200A	0.48KW	Touch Screen	L580*w380*H280
IPS-ATDH24600	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~24VDC	0~600A	14.4KW	Touch Screen	L750*W450*H520
IPS-ATDH242000	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~24VDC	0~2000A	48KW	Touch Screen	L750*W450*H700
IPS-ATDH28200	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~28VDC	0~200A	8.4KW	Touch Screen	L680*W460*H520
IPS-ATDH361500	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~36VDC	0~1500A	54KW	Touch Screen	L750*W450*H700
IPS-ATDH48375	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~48VDC	0~375A	18KW	Touch Screen	L680*W450*H520
IPS-ATDH50100	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~50VDC	0~100A	5KW	Touch Screen	L580*w380*H280
IPS-ATDH50200	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~50VDC	0~200A	10KW	Touch Screen	L630*W440*H320
IPS-ATDH50400	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~50VDC	0~400A	20KW	Touch Screen	L680*W450*H520
IPS-ATDH50900	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~50VDC	0~900A	45KW	Touch Screen	L750*W520*H1150
IPS-ATDH504000	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~50VDC	0~4000A	200KW	Touch Screen	L1300*W650*H1450
IPS-ATDH60250	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~60VDC	0~250A	15KW	Touch Screen	L680*W460*H520
IPS-ATDH80100	Customize	1-phase110/220VAC or 3-phases380/450VAC	0~80VDC	0~100A	8KW	Touch Screen	L680*W450*H520

IPS-ATDH96750	Customize	1-phase110/220VAC or 3-phases380/450VAC	0~80VDC	0~200A	16KW	Touch Screen	L750*W450*H700
IPS-ATDH96750	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~96VDC	0~750A	72KW	Touch Screen	L750*W520*H1150
IPS-ATDH10050	Customize	1-phase110/220VAC or 3-phases380/450VAC	0~100VDC	0~50A	5KW	Touch Screen	L580*W380*H280
IPS-ATDH100200 0	Customize	1-phase110/220VAC or 3-phases380/450VAC	0~100VDC	0~2000A	200KW	Touch Screen	L450*W210*H1160
IPS-ATDH110181	Customize	1-phase110/220VAC or 3-phases380/450VAC	0~110VDC	0~181A	199.1KW	Touch Screen	L750*W450*H700
IPS-ATDH110525	Customize	1-phase110/220VAC or 3-phases380/450VAC	0~110VDC	0~525A	57.75KW	Touch Screen	L750*W520*H1150
IPS-ATDH150166	Customize	1-phase110/220VAC or 3-phases380/450VAC	0~150VDC	0~166A	24.9KW	Touch Screen	L750*W520*H1150
IPS-ATDH25050	Customize	1-phase110/220VAC or 3-phases380/450VAC	0~250VDC	0~50A	12.5KW	Touch Screen	L580*w380*H280
IPS-ATDH30030	Customize	1-phase110/220VAC or 3-phases380/450VAC	0~300VDC	0~30A	9KW	Touch Screen	L680*W450*H520
IPS-ATDH300300	Customize	1-phase110/220VAC or 3-phases380/450VAC	0~300VDC	0~300A	90KW	Touch Screen	L850*W550*H1080
IPS-ATDH40030	Customize	1-phase110/220VAC or 3-phases380/450VAC	0~400VDC	0~30A	12KW	Touch Screen	L750*W460*H1520
IPS-ATDH50016	Customize	1-phase110/220VAC or 3-phases380/450VAC	0~500VDC	0~16A	8KW	Touch Screen	L680*W450*H520
IPS-ATDH50025	Customize	1-phase110/220VAC or 3-phases 380/450VAC	0~500VDC	0~25A	12.5KW	Touch Screen	L680*W450*H520
IPS-ATDH50030	Customize	1-phase110/220VAC or 3-phases380/450VAC	0~500VDC	0~30A	15KW	Touch Screen	L680*W450*H520
IPS-ATDH500100	Customize	1-phase110/220VAC or 3-phases380/450VAC	0~500VDC	0~100A	50KW	Touch Screen	L750*W520*H1150
IPS-ATDH500200 0	Customize	1-phase110/220VAC or 3-phases380/450VAC	0~500VDC	0~2000A	100KW	Touch Screen	L1950*W380*H1500

IPS-ATDH60015	Customize	1-phase110/220VAC or 3-phases380/450VAC	0~600VDC	0~15A	9KW	Touch Screen	L680*W460*H520
IPS-ATDH60050	Customize	1-phase110/220VAC or 3-phases380/450VAC	0~600VDC	0~50A	30KW	Touch Screen	L750*W520*H690
IPS-ATDH600125	Customize	1-phase110/220VAC or 3-phases380/450VAC	0~600VDC	0~62A	37.2KW	Touch Screen	L750*W520*H690
IPS-ATDH600125	Customize	1-phase110/220VAC or 3-phases380/450VAC	0~600VDC	0~125A	75KW	Touch Screen	L850*W550*H1080
IPS-ATDH600150	Customize	1-phase110/220VAC or 3-phases380/450VAC	0~600VDC	0~150A	90KW	Touch Screen	L850*W550*H1350
IPS-ATDH75020	Customize	1-phase110/220VAC or 3-phases380/450VAC	0~750VDC	0~20A	15KW	Touch Screen	L750*W460*H690
IPS-ATDH75060	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~750VDC	0~60A	45KW	Touch Screen	L900*W500*H1080
IPS-ATDH80010	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~800VDC	0~10A	8KW	Touch Screen	L680*W460*H520
IPS-ATDH80015	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~800VDC	0~15A	12KW	Touch Screen	L750*W450*H700
IPS-ATDH80020	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~800VDC	0~20A	16KW	Touch Screen	L680*W460*H520
IPS-ATDH800100	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~800VDC	0~100A	80KW	Touch Screen	L820*W900*H1350
IPS-ATDH85065	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~850VDC	0~65A	55.25KW	Touch Screen	L750*W9520*H1150
IPS-ATDH10006	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~1000VDC	0~6A	6KW	Touch Screen	L680*W460*H520
IPS-ATDH100010	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~1000VDC	0~10A	10KW	Touch Screen	L680*W460*H520
IPS-ATDH100012	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~1000VDC	0~12A	12KW	Touch Screen	L680*W460*H520
IPS-ATDH100015	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~1000VDC	0~15A	15KW	Touch Screen	L750*W450*H700

Model	Application	Input Voltage	Output Voltage	Output Current	Output Power	Display	Machine Size-MM
IPS-ATDH100020	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~1000VDC	0~20A	20KW	Touch Screen	L750*W500*H800
IPS-ATDH1000400	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~1000VDC	0~400A	400KW	Touch Screen	L1750*W1250*H1950
IPS-ATDH150010	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~1500VDC	0~10A	15KW	Touch Screen	L750*W460*H8680
IPS-ATDH160010	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~1600VDC	0~10A	16KW	Touch Screen	L750*W460*H8680
IPS-ATDH200010	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~2000VDC	0~10A	20KW	Touch Screen	L750*W450*H700
IPS-ATDH200015	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~2000VDC	0~15A	30KW	Touch Screen	L750*W450*H1150
IPS-ATDH200020	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~2000VDC	0~20A	40KW	Touch Screen	L680*W450*H520
IPS-ATDH300004	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~3000VDC	0~0.4A	0.12KW	Touch Screen	L680*W450*H520
IPS-ATDH300010	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~3000VDC	0~10A	30KW	Touch Screen	L750*W520*H1150
IPS-ATDH300020	Customize	1-phase 110/220VAC or 3-phases 380/450VAC	0~3000VDC	0~20A	60KW	Touch Screen	L750*W550*H1650
IPS-ATDH500005	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~5000VDC	0~0.5A	2500W	Touch Screen	L750*W450*H700
IPS-ATDH200002	Customize	1-phase 110/220VAC or 3-phases380/450VAC	0~20000VDC	0~2A	40KW	Touch Screen	L750*W520*H1150

Testing Power Supply

Model	Application	Input Voltage	Output Voltage	Output Current	Output Power	Display	Machine Size-MM
IPS-ATDH24800	Testing	1-phase 110/220VAC or 3-phases380/450VAC	0~24VDC	0~800A	19.2KW	LED	L460*W650 *H720
IPS-ATDH36500	Testing	1-phase 110/220VAC or 3-phases380/450VAC	0~36VDC	0~500A	18KW	LED	L460*W650 *H720
IPS-ATDH605	Testing	1-phase 110/220VAC or	0~60VDC	0~5A	300W	LED	L290*W350*H160

		3-phases380/450VAC					
IPS-ATDH501200	Testing	1-phase 110/220VAC or 3-phases380/450VAC	0~50VDC	0~1200A	60KW	Touch Screen	L520 *W780*H1040
IPS-ATDH30005	Testing	1-phase 110/220VAC or 3-phases380/450VAC	0~3000VDC	0~5A	15KW	Touch Screen	L460*W650 *H720
IPS-ATDH12400	Testing	1-phase 110/220VAC or 3-phases380/450VAC	0~12VDC	0~400A	4.8KW	LED	L380 *W590 *H270
IPS-ATDH120200	Testing	1-phase 110/220VAC or 3-phases380/450VAC	0~120VDC	0~200A	24KW	LED	L530 *W460*H650
IPS-ATDH205000	Testing	1-phase 110/220VAC or 3-phases380/450VAC	0~20VDC	0~5000A	100KW	Touch Screen	L550*W600*H1600
IPS-ATDH500100	Testing	1-phase 110/220VAC or 3-phases380/450VAC	0~500VDC	0~100A	50KW	LED	L350*W650*H1150
IPS-ATDH401000	Testing	1-phase 110/220VAC or 3-phases380/450VAC	0~40VDC	0~1000A	40KW	LED	L450*W560*H710
IPS-ATDH800250	Testing	1-phase 110/220VAC or 3-phases380/450VAC	0~800VDC	0~250A	200KW	Touch Screen	L1950 *W1100*H1000
IPS-ATDH200100	Testing	1-phase 110/220VAC or 3-phases380/450VAC	0~200VDC	0~100A	20KW	Touch Screen	L530 *W460*H650
IPS-ATDH200400	Testing	1-phase 110/220VAC or 3-phases380/450VAC	0~200VDC	0~400A	80KW	LED	L6800*W550*1620
IPS-ATDH15020	Testing	1-phase 110/220VAC or 3-phases380/450VAC	0~150VDC	0~20A	3KW	LED	L270*W380*H550
IPS-ATDH40060	Testing	1-phase 110/220VAC or 3-phases380/450VAC	0~400VDC	0~60A	24KW	LED	L460*W650*H720
IPS-ATDH450100	Testing	1-phase 110/220VAC or 3-phases380/450VAC	0~450VDC	0~100A	45KW	LED	L460*W650 *H720
IPS-ATDH30400	Testing	1-phase 110/220VAC or 3-phases380/450VAC	0~30VDC	0~400A	12KW	LED	L460*W650 *H720
IPS-ATDH60800	Testing	1-phase 110/220VAC or 3-phases380/450VAC	0~60VDC	0~800A	48KW	Touch Screen	L780*W520*H1050

| IPS-ATDH105000 | Testing | 1-phase 110/220VAC or 3-phases380/450VAC | 0~10VDC | 0~5000A | 50KW | Touch Screen | L680*W550*H1620 |

Other Power Supply

Model	Application	Input Voltage	Output Voltage	Output Current	Output Power	Display	Machine Size-MM
IPS-ATDH6020	Testing	1-phase 110/220VAC or 3-phases380/450VAC	0~60VDC	0~20A	1.2KW	LED	L4390*W440*H270
IPS-ATDH241000	Electrolysis	1-phase 110/220VAC or 3-phases380/450VAC	0~24VDC	0~1000A	24KW	LED	L460*W650*H720
IPS-ATDH154000	Electrolysis	1-phase 110/220VAC or 3-phases380/450VAC	0~15VDC	0~4000A	60KW	LED	L550*W720*H1250
IPS-ATDH501200	Testing	1-phase 110/220VAC or 3-phases380/450VAC	0~50VDC	0~1200A	60KW	Touch Screen	L520*W780*H1040
IPS-ATDH15500	Experimental Testing	1-phase 110/220VAC or 3-phases380/450VAC	0~15VDCC	0~500A	7.5KW	Touch Screen	L270*W380*H530
IPS-ATDH250800	Electrolysis Soda	1-phase 110/220VAC or 3-phases380/450VAC	0~250VDC	0~800A	200KW	LED	L800*W900*H1950
IPS-ATDH203000	Electrolysis	1-phase 110/220VAC or 3-phases380/450VAC	0~20VDC	0~30000A	600KW	Touch Screen	L1000*W1700*H2000
IPS-ATDH100050	Parallel	1-phase 110/220VAC or 3-phases380/450VAC	0~1000VDC	0~50A	50KW	LED	L650*W520*H1150
IPS-ATDH302500	Sewage Treatment	1-phase 110/220VAC or 3-phases380/450VAC	0~30VDC	0~2500A	75KW	LED	L650*W720*H930

Polishing Power Supply

Model	Application	Input Voltage	Output Voltage	Output Current	Output Power	Display	Machine Size-MM
IPS-ATDH30600	Polishing	1-phase 110/220VAC or 3-phases380/450VAC	0~30V	0~600A	18KW	LED	L360*W280*H480
IPS-ATDH400100	Polishing	1-phase 110/220VAC or 3-phases380/450VAC	0~400V	0~100A	40KW	LED	L560*W450*H650
IPS-ATDH350350	Polishing	1-phase 110/220VAC or	0~350V	0~350A	122.5KW	LED	L680*W900*H1530

Model	Application	Input Voltage	Output Voltage	Output Current	Output Power	Display	Machine Size-MM
		3-phases380/450VAC					
IPS-ATDH35030	Polishing	1-phase 110/220VAC or 3-phases380/450VAC	0~350V	0~30A	10.5KW	LED	L530*W440*H580
IPS-ATDH201000	Polishing	1-phase 110/220VAC or 3-phases380/450VAC	0~20VDC	0~1000A	20KW	LED	L460*W650*720
IPS-ATDH24650	Polishing	1-phase 110/220VAC or 3-phases380/450VAC	0~24VDC	0~650A	15.6KW	LED	L380*W590*270
IPS-ATDH120150	Polishing	1-phase 110/220VAC or 3-phases380/450VAC	0~120VDC	0~150A	18KW	LED	L530*W460*650
IPS-ATDH15050	Polishing	1-phase 110/220VAC or 3-phases380/450VAC	0~150VDC	0~50A	7.5KW	LED	L530*W460*650
IPS-ATDH30005	Polishing	1-phase 110/220VAC or 3-phases380/450VAC	0~3000VDC	0~5A	15KW	Touch Screen	L460*W650*H720
IPS-ATDH120020	Polishing	1-phase 110/220VAC or 3-phases380/450VAC	0~1200VDC	0~20A	24KW	LED	L490*W720*H1620
IPS-ATDH4001000	Polishing	1-phase 110/220VAC or 3-phases380/450VAC	0~400VDC	0~1000A	400KW	LED	L2000*W1250*H1750
IPS-ATDH100030	Polishing	1-phase 110/220VAC or 3-phases380/450VAC	0~1000VDC	0~30A	30KW	Touch Screen	L780*W520*H1100

Anodizing Power Supply

Model	Application	Input Voltage	Output Voltage	Output Current	Output Power	Display	Machine Size-MM
IPS-ATDH1002000	Hard Anodizing	1-phase 110/220VAC or 3-phases380/450VAC	0~100V	0~2000A	200KW	LED	L450*W2100*H1160
IPS-ATDH243000	Anodizing	1-phase 110/220VAC or 3-phases380/450VAC	0~24V	0~3000A	72KW	LED	L520*W650*H1050
IPS-ATDH601000	Hard Anodizing	1-phase 110/220VAC or 3-phases380/450VAC	0~60V	0~1000A	60KW	LED	L450*W580*H1280
IPS-ATDH24200	Anodizing	1-phase 110/220VAC or 3-phases380/450VAC	0~24V	0~200A	4.8KW	LED	L210*W380*H370
IPS-ATDH603000	Hard Anodizing	1-phase 110/220VAC or 3-phases380/450VAC	0~60V	0~3000A	180KW	Touch Screen	L1300*W440*H1750

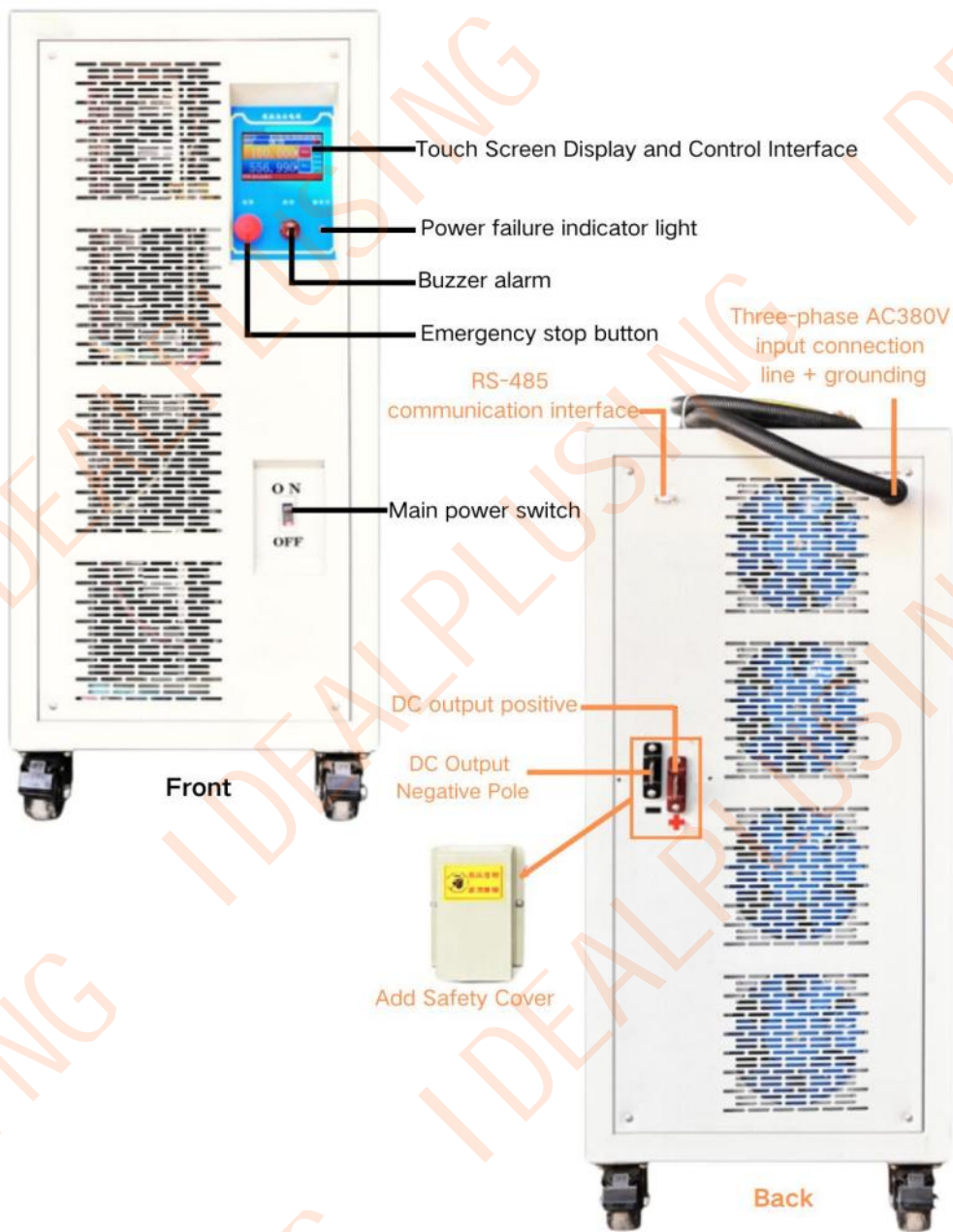| Water Treatment Power Supply							
IPS-ATDH303000	Water Treatment	1-phase 110/220VAC or 3-phases380/450VAC	0~300V	0~3000A	90KW	Touch Screen	L760*W460*H1250
IPS-ATDH36600	Water Treatment	1-phase 110/220VAC or 3-phases380/450VAC	0~36V	0~600A	21.6KW	LED	L450*W500*H500
IPS-ATDH12550	Water Treatment	1-phase 110/220VAC or 3-phases380/450VAC	0~12V	0~550A	6.6KW	LED	L380*W590*H2700
IPS-ATDH601000	Water Treatment	1-phase 110/220VAC or 3-phases380/450VAC	0~60V	0~1000A	60KW	LED	L450*W760*H1290
IPS-ATDH24400	Water Treatment	1-phase 110/220VAC or 3-phases380/450VAC	0~24V	0~400A	9.6KW	LED	L380*W590*H270
IPS-ATDH120130	Water Treatment	1-phase 110/220VAC or 3-phases380/450VAC	0~120V	0~130A	15.6KW	LED	L430*W430*H500
IPS-ATDH501200	Water Treatment	1-phase 110/220VAC or 3-phases380/450VAC	0~50V	0~1200A	60KW	LED	L780*W520*H1150
IPS-ATDH301500	Water Treatment	1-phase 110/220VAC or 3-phases380/450VAC	0~30V	0~1500A	45KW	Touch Screen	L650*W550*H1150
IPS-ATDH60020	Water Treatment	1-phase 110/220VAC or 3-phases380/450VAC	0~600V	0~20A	12KW	LED	L450*W410*H480
IPS-ATDH30200	Water Treatment	1-phase 110/220VAC or 3-phases380/450VAC	0~30V	0~200A	6KW	LED	L380*W630*H270
IPS-ATDH200150	Water Treatment	1-phase 110/220VAC or 3-phases380/450VAC	0~200V	0~150A	30KW	LED	L560*W450*H650
IPS-ATDH15200	Water Treatment	1-phase 110/220VAC or 3-phases380/450VAC	0~200A	0~15V	3KW	Touch Screen	L500*W400*H350

06

Panel Function

IDEALPLUSING

DC Adjustable Power Supply

Panel Function

Touch Screen Display and Control Interface

Power failure indicator light

Buzzer alarm

Emergency stop button

RS-485 communication interface

Three-phase AC380V input connection line + grounding

Main power switch

ON

OFF

Front

DC output positive

DC Output Negative Pole

Add Safety Cover

Back

07

Product Warranty Card

IDEALPLUSING

DC Adjustable Power Supply

Product Warranty Card

Product name and model: _____

Product serial number: _____

Purchase Date: _____

Warranty service provider contact information：

● Service hotline: +86-20-89282095

● Mobile phone number: +86-15876570341

● Email address: info@idealplusing.com

● Office address: Building 1, Jinfa Technology Innovation Community, No. 85 Gaopu

Road,Tianhe District, Guangzhou

● Factory address: No. 3, Xinye Lane 1, Chenyong Industrial Zone, Qiaonan Street, Panyu

District, Guangzhou City

● Official Website：www.idealplusing.com　www.ybyps.com

Consumer Responsibilities and Precautions:

● Please use and maintain the product correctly according to the product manual.

● Unauthorized repairs or modifications may void the warranty.

● The repaired or replaced product may be entitled to the remainder of the original warranty

period or the newly specified warranty period.

Warranty Service Record (filled in by the service center):

● Repair date: _____

● Repair content: _____

● Signature of the repairman: _____

Mobile/WhatsApp: +86-15876570341

Tel: +86-20-89282095   **Email**: info@idealplusing.com

Website: www.idealplusing.com   www.ybyps.com

Office address: 1st Floor, Building 1, No. 85 Gaopu Road, Tianhe District, Guangzhou

Factory address: No. 3, Xinye Lane 1, Chenyong Industrial Zone, Qiaonan Street, Panyu District,

Guangzhou City