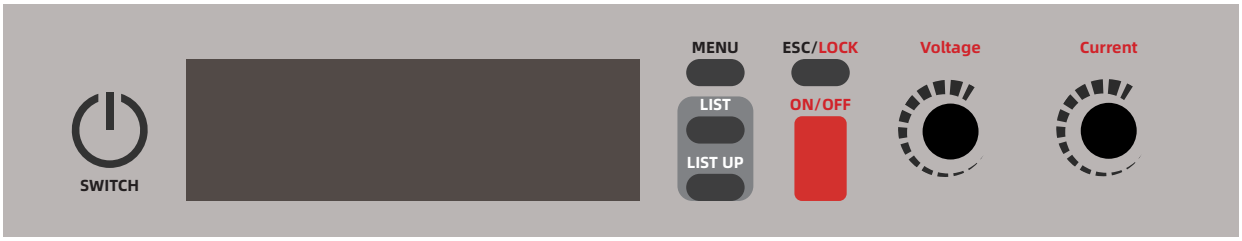
IPS-DH10 Series 1U High-Precision Programmable DC Power Supply Specifications

Product Overview and Technical Specifications

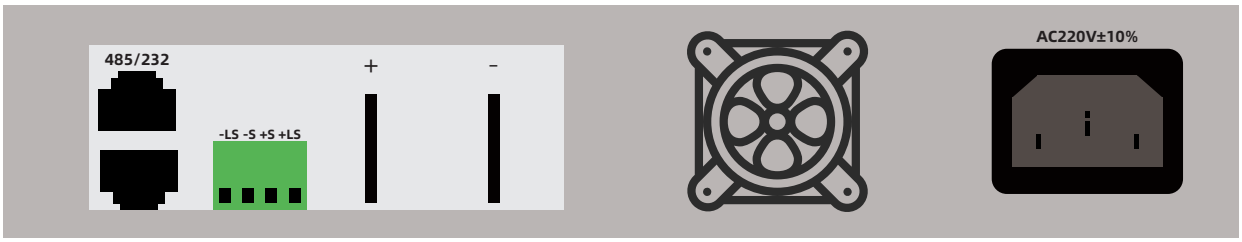
The H10 series programmable DC power supply is a high-performance DC power supply specifically developed for research and industrial applications requiring automated power control. This series features excellent electronic characteristics such as high accuracy, high precision, and high stability. It is designed with comprehensive over-voltage and over-temperature protection circuits, ensuring higher product reliability. The voltage, current, and time parameters can be set via the front panel or programmed via a communication interface from a host computer, enabling programmable automatic testing.

Features

◇ Standard 1U half-width size, small volume and light weight, suitable for workbench use and rack mounting.
◇ 5-digit display is clear and easy to read, with rich information displayed on the LCD screen.
◇ Dual encoders for voltage and current adjustment, making operation convenient.
◇ Programmable voltage, current, and time output.
◇ Built-in 30-step programmable voltage, current, and time output.
◇ RS-232/485 interface, supporting Modbus-RTU and SCPI communication protocols.
◇ Designed with load-side voltage sensing terminals, enabling accurate reading and precise control of the load-side voltage.



IPS-DH10-1U-Half-width Front



IPS-DH10-1U-Half-width Back

Features

◇ Standard 1U full-width size, small volume and light weight, suitable for workbench use and rack mounting.

◇ 5-digit display is clear and easy to read, with rich information displayed on the LCD screen.

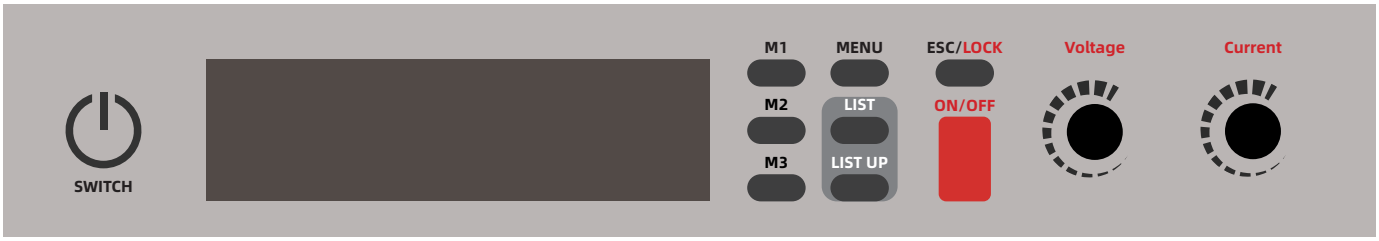
◇ Dual encoders for voltage and current adjustment, making operation convenient.

◇ Programmable voltage, current, and time output.

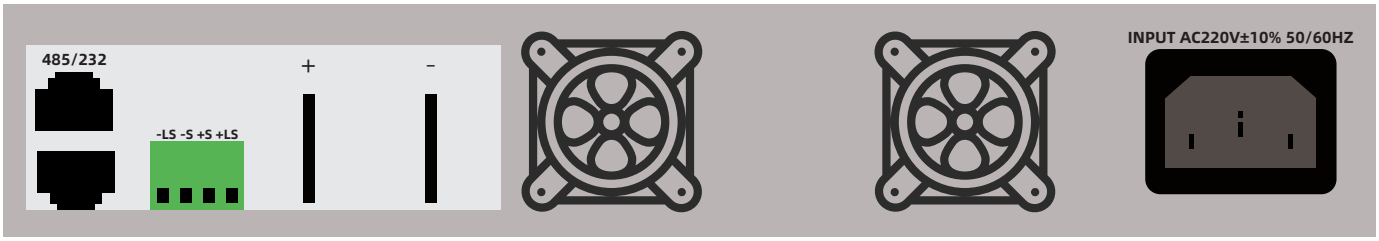
◇ Built-in 30-step programmable voltage, current, and time output.

◇ RS-232/485 interface, supporting Modbus-RTU and SCPI communication protocols.

◇ Designed with load-side voltage sensing terminals, enabling accurate reading and precise control of the load-side voltage.

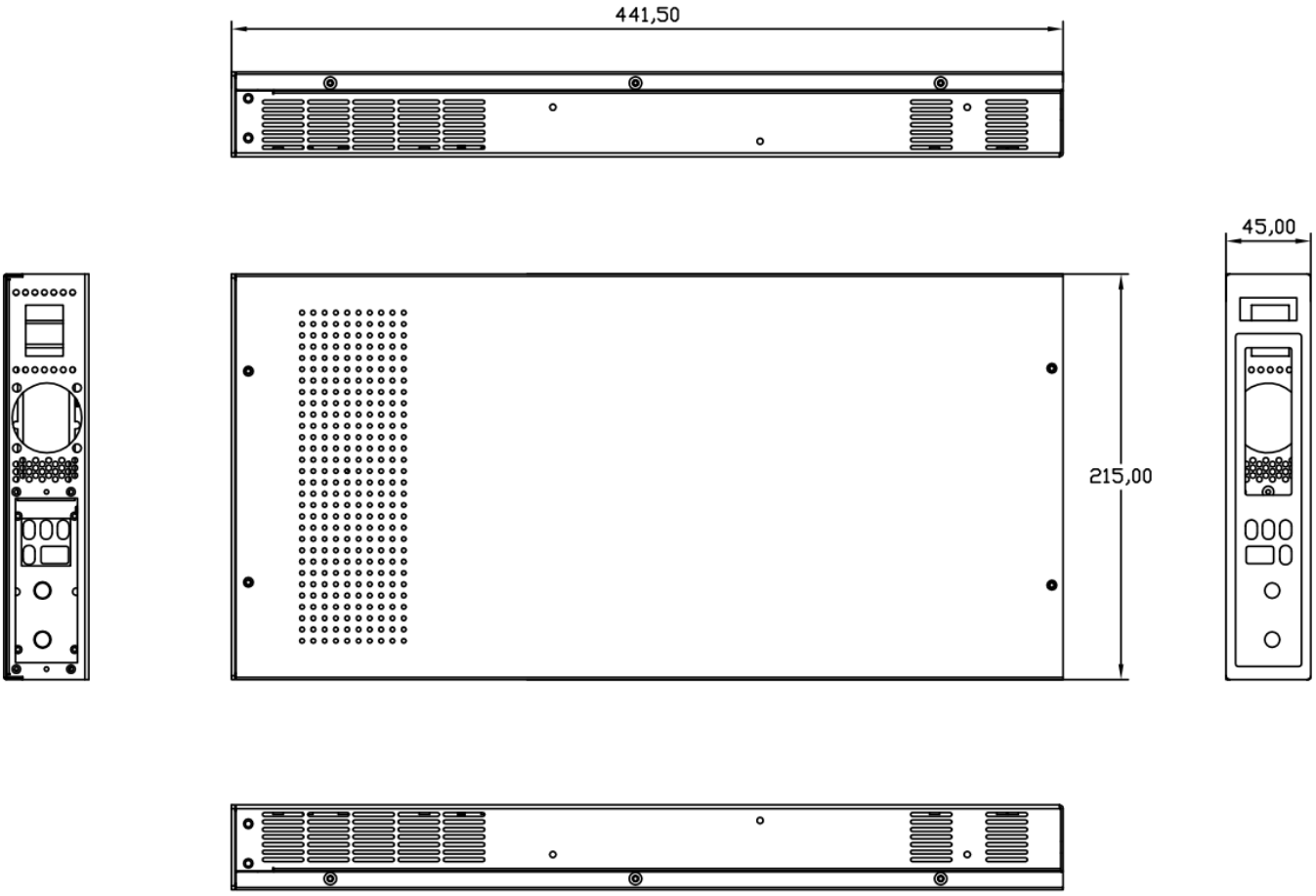


IPS-DH10-1U-Full-width Front

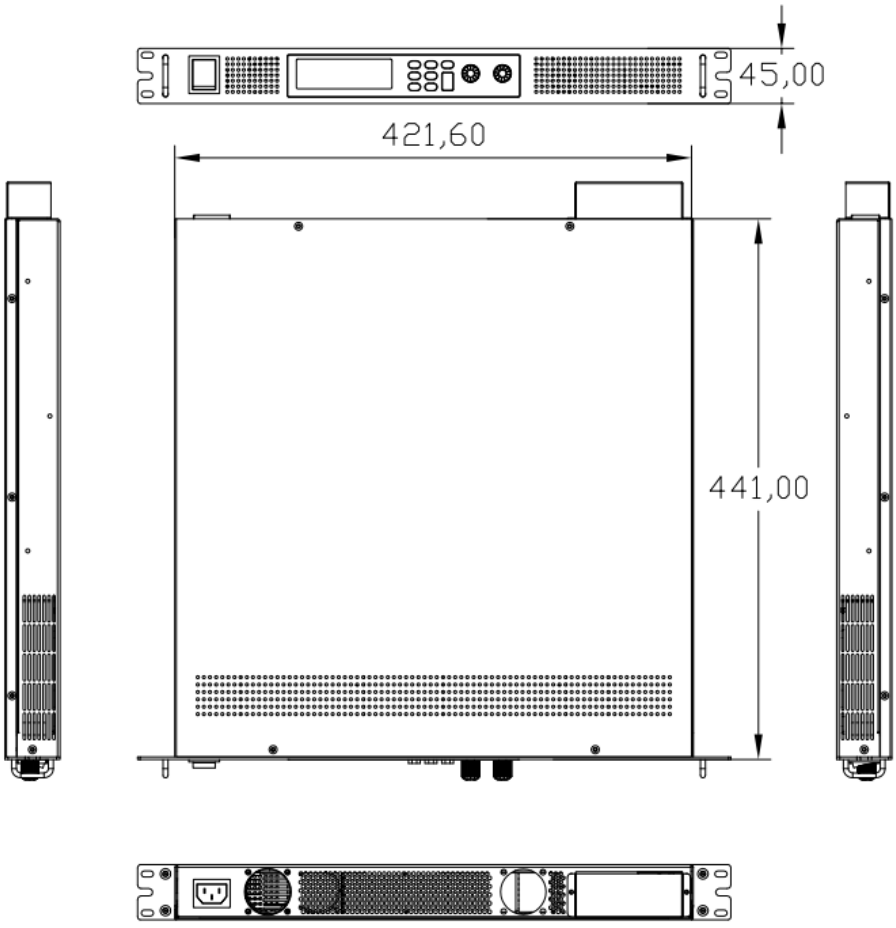


IPS-DH10-1U-Full-width Back

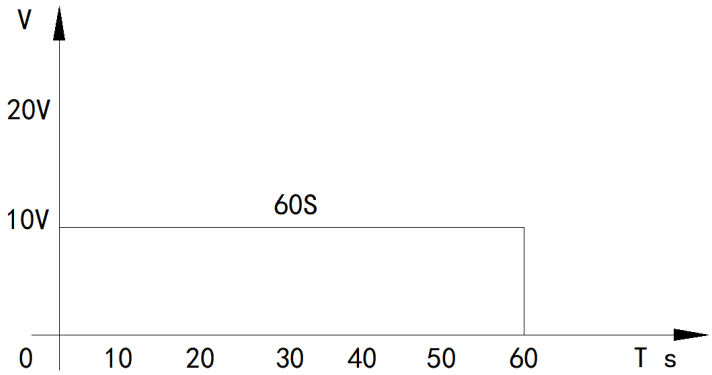
Half-width model dimensions (excluding protrusions) (mm)



Full-width machine dimensions (excluding protrusions) (mm)

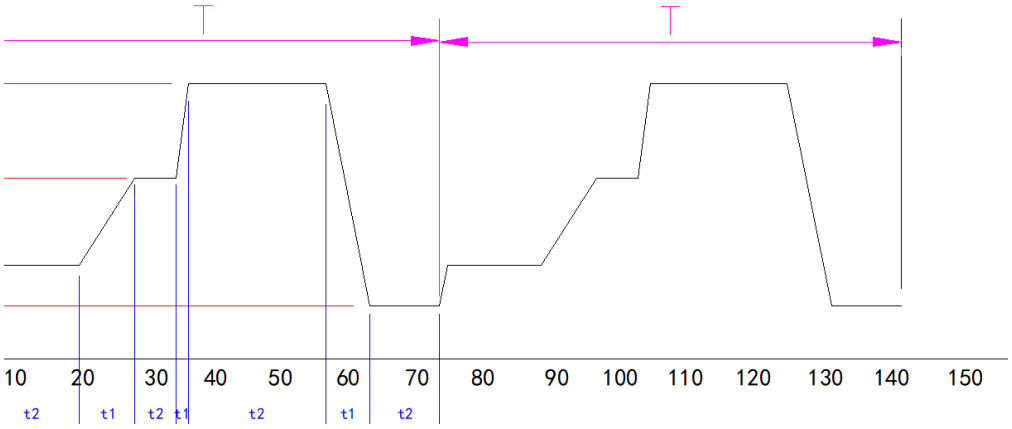


◇ **Timed output function: Example:** Power on and run at 10V for 60 seconds.



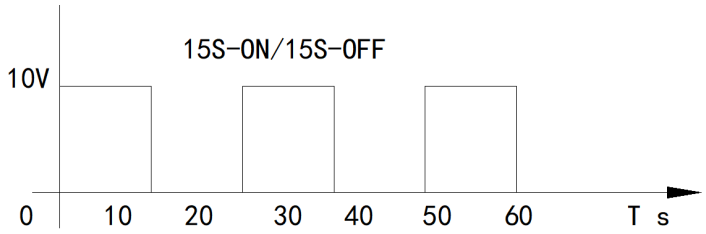
◇ **Sequence Function:** Example: Power on and run 0-10V, 15S; 10-20V, 8S; 20-30V, 18S; 30-6V, 7S, cycle twice.

The total number of steps t1+t2 can be set to 20, and T can be set to 9999 loops. During t1, a single trigger can be used to jump directly to t2.



When the voltage drops from high to low, the voltage drop time is affected by the load due to the presence of the power supply output capacitor. A lighter load will result in a longer drop time. The voltage drop time diagram in the datasheet is for user reference only; other diagrams will not be specifically explained.

◇ **Intermittent output function:** Example: 0-10V upon startup, 15S on/15S off, can cycle 9999 times.



Specifications	30V output series						
Model	IPS-DH10-3025	IPS-DH10-3030	IPS-DH10-3040	IPS-DH10-3050	IPS-DH10-3060	IPS-DH10-3080	IPS-DH10-30100
AC input	Single-phase 220V±10%						
	Frequency 50Hz/60Hz						
Output voltage	0-30V						
Output current	0-25A	0-30A	0-40A	0-50A	0-60A	0-80A	0-100A
Output power	750W	900W	1200W	1500W	1800W	2400W	3000W
Power stability	≦ 0.1%+10mV						
Load stability	≦ 0.1%+30mV						
Voltage regulation accuracy	≦ ±0.1%FS						
Steady flow accuracy	≦ ±0.1%FS						
Ripple (rms)	≤ 0.1%FS+10mV						
Voltage setting accuracy	±0.1%FS+10mV						
Current setting accuracy	±0.1%FS+10mA						
Voltage readback accuracy resolution	5-digit meter. Accuracy: ±0.1%FS + 3 digits (10%-100% of rated value).						
	1mV						
Current readback accuracy resolution	5-digit meter. Accuracy: ±0.1%FS + 3 digits (10%-100% of rated value).						
	1mA						10mA
Display method	Broken code screen display						
Output overvoltage protection	The menu settings include O.V.P. protection; the protection value can be set arbitrarily, and the output will be turned off after protection is applied.						
Output overcurrent protection	The menu settings include O.I.P. protection; the protection value can be set arbitrarily, and output will be turned off after protection is enabled.						
Over-temperature protection	Built-in OTP protection, with a protection value of 85℃ ±5% (radiator temperature).						
Voltage setting	Menu settings, encoder knob input						
Current setting	Menu settings, encoder knob input						
Communication methods	RS-485/RS-232 (supports Modbus and SCPI protocols)						
Function	Constant voltage/constant current, foldback current protection, memory mode, list sequence loop, configurable ON/OFF time, pulse width output, 9999 cycles, three preset voltage and current sets (full width model), and key lock.						
Output polarity	The positive (+) and negative (-) outputs can be grounded arbitrarily.						
Heat dissipation method	Forced air cooling						
Operating environment	Designed for indoor use, with a temperature range of 0℃ to 40℃ and a humidity range of 10% to 85% RH.						
Storage environment	Temperature: -20℃ ~ 70℃ ; Humidity: 10% ~ 90% RH						
Size and weight	W215*H44*L450 (mm) Approximately 2.8 kg				W430*H44*L450 (mm) Approximately 3.5 kg		
Note: All values are typical and will be exceeded under different loads or other conditions. Accuracy is measured under load-sensing conditions; actual values may deviate from rated values due to temperature errors and component aging.							
Note: FS represents full scale. The three digits indicate that the last digit of the display will jump three times.							

Specifications	50V output series					
Model	IPS-DH10-5015	IPS-DH10-5020	IPS-DH10-5030	IPS-DH10-5040	IPS-DH10-5050	IPS-DH10-5060
AC input	Single-phase 220V±10%					
	Frequency 50Hz/60Hz					
Output voltage	0-50V					
Output current	0-15A	0-20A	0-30A	0-40A	0-50A	0-60A
Output power	750W	1000W	1500W	2000W	2500W	3000W
Power stability	≦ 0.1%+10mV					
Load stability	≦ 0.1%+30mV					
Voltage regulation accuracy	≦ ±0.1%FS					
Steady flow accuracy	≦ ±0.1%FS					
Ripple (rms)	≤ 0.1%FS+10mV					
Voltage setting accuracy	±0.1%FS+10mV					
Current setting accuracy	±0.1%FS+10mA					
Voltage readback accuracy resolution	5-digit meter. Accuracy: ±0.1%FS + 3 digits (10%-100% of rated value).					
	1mV					
Current readback accuracy resolution	5-digit meter. Accuracy: ±0.1%FS + 3 digits (10%-100% of rated value).					
	1mA					
Display method	Broken code screen display					
Output overvoltage protection	The menu settings include O.V.P. protection; the protection value can be set arbitrarily, and the output will be turned off after protection is applied.					
Output overcurrent protection	The menu settings include O.I.P. protection; the protection value can be set arbitrarily, and output will be turned off after protection is enabled.					
Over-temperature protection	Built-in OTP protection, with a protection value of 85℃ ±5% (radiator temperature).					
Voltage setting	Menu settings, encoder knob input					
Current setting	Menu settings, encoder knob input					
Communication methods	RS-485/RS-232 (supports Modbus and SCPI protocols)					
Function	Constant voltage/constant current, foldback current protection, memory mode, list sequence loop, configurable ON/OFF time, pulse width output, 9999 cycles, three preset voltage and current sets (full width model), and key lock.					
Output polarity	The positive (+) and negative (-) outputs can be grounded arbitrarily.					
Heat dissipation method	Forced air cooling					
Operating environment	Designed for indoor use, with a temperature range of 0℃ to 40℃ and a humidity range of 10% to 85% RH.					
Storage environment	Temperature: -20℃ ~ 70℃ ; Humidity: 10% ~ 90% RH					
Size and weight	W215*H44*L450 (mm) Approximately 2.8 kg			W430*H44*L450 (mm) Approximately 3.5 kg		
Note: All values are typical and will be exceeded under different loads or other conditions. Accuracy is measured under load-sensing conditions; actual values may deviate from rated values due to temperature errors and component aging.						
Note: FS represents full scale. The three digits indicate that the last digit of the display will jump three times.						

Specifications	60V output series					100V Output Series	
Model	IPS-DH10-6012	IPS-DH10-6025	IPS-DH10-6030	IPS-DH10-6040	IPS-DH10-6050	IPS-DH10-1007	IPS-DH10-10010
AC input	Single-phase 220V±10%						
	Frequency 50Hz/60Hz						
Output voltage	0-60V					0-100V	
Output current	0-12.5A	0-25A	0-30A	0-40A	0-50A	0-7.5A	0-10A
Output power	750W	1500W	1800W	2400W	3000W	750W	1000W
Power stability	≦ 0.1%+10mV						
Load stability	≦ 0.1%+30mV						
Voltage regulation accuracy	≦ ±0.1%FS						
Steady flow accuracy	≦ ±0.1%FS						
Ripple (rms)	≤ 0.1%FS+10mV						
Voltage setting accuracy	±0.1%FS+10mV						
Current setting accuracy	±0.1%FS+10mA						
Voltage readback accuracy resolution	5-digit meter. Accuracy: ±0.1%FS + 3 digits (10%-100% of rated value).						
	1mV					10mV	
Current readback accuracy resolution	5-digit meter. Accuracy: ±0.1%FS + 3 digits (10%-100% of rated value).						
	1mA					0.1mA	1mA
Display method	Broken code screen display						
Output overvoltage protection	The menu settings include O.V.P. protection; the protection value can be set arbitrarily, and the output will be turned off after protection is applied.						
Output overcurrent protection	The menu settings include O.I.P. protection; the protection value can be set arbitrarily, and output will be turned off after protection is enabled.						
Over-temperature protection	Built-in OTP protection, with a protection value of 85℃ ±5% (radiator temperature).						
Voltage setting	Menu settings, encoder knob input						
Current setting	Menu settings, encoder knob input						
Communication methods	RS-485/RS-232 (supports Modbus and SCPI protocols)						
Function	Constant voltage/constant current, foldback current protection, memory mode, list sequence loop, configurable ON/OFF time, pulse width output, 9999 cycles, three preset voltage and current sets (full width model), and key lock.						
Output polarity	The positive (+) and negative (-) outputs can be grounded arbitrarily.						
Heat dissipation method	Forced air cooling						
Operating environment	Designed for indoor use, with a temperature range of 0℃ to 40℃ and a humidity range of 10% to 85% RH.						
Storage environment	Temperature: -20℃ ~ 70℃ ; Humidity: 10% ~ 90% RH						
Size and weight	W215*H44*L450 Approximately 2.8kg		W430*H44*L450 Approximately 3.5kg			W215*H44*L450 Approximately 2.8kg	
Note: All values are typical and will be exceeded under different loads or other conditions. Accuracy is measured under load-sensing conditions; actual values may deviate from rated values due to temperature errors and component aging.							
Note: FS represents full scale. The three digits indicate that the last digit of the display will jump three times.							

Specifications	100V Output Series		150V Output Series			
Model	IPS-DH10-10020	IPS-DH10-10030	IPS-DH10-1505	IPS-DH10-15010	IPS-DH10-15015	IPS-DH10-15020
AC input	Single-phase 220V±10%					
	Frequency 50Hz/60Hz					
Output voltage	0-100V		0-150V			
Output current	0-20A	0-30A	0-5A	0-10A	0-15A	0-20A
Output power	2000W	3000W	750W	1500W	2250W	3000W
Power stability	≦ 0.1%+10mV					
Load stability	≦ 0.1%+30mV					
Voltage regulation accuracy	≦ ±0.1%FS					
Steady flow accuracy	≦ ±0.1%FS					
Ripple (rms)	≤ 0.1%FS+10mV					
Voltage setting accuracy	±0.1%FS+10mV					
Current setting accuracy	±0.1%FS+10mA					
Voltage readback accuracy resolution	5-digit meter. Accuracy: ±0.1%FS + 3 digits (10%-100% of rated value).					
	10mV					
Current readback accuracy resolution	5-digit meter. Accuracy: ±0.1%FS + 3 digits (10%-100% of rated value).					
	1mA		0.1mA	1mA		
Display method	Broken code screen display					
Output overvoltage protection	The menu settings include O.V.P. protection; the protection value can be set arbitrarily, and the output will be turned off after protection is applied.					
Output overcurrent protection	The menu settings include O.I.P. protection; the protection value can be set arbitrarily, and output will be turned off after protection is enabled.					
Over-temperature protection	Built-in OTP protection, with a protection value of 85℃ ±5% (radiator temperature).					
Voltage setting	Menu settings, encoder knob input					
Current setting	Menu settings, encoder knob input					
Communication methods	RS-485/RS-232 (supports Modbus and SCPI protocols)					
Function	Constant voltage/constant current, foldback current protection, memory mode, list sequence loop, configurable ON/OFF time, pulse width output, 9999 cycles, three preset voltage and current sets (full width model), and key lock.					
Output polarity	The positive (+) and negative (-) outputs can be grounded arbitrarily.					
Heat dissipation method	Forced air cooling					
Operating environment	Designed for indoor use, with a temperature range of 0℃ to 40℃ and a humidity range of 10% to 85% RH.					
Storage environment	Temperature: -20℃ ~ 70℃ ; Humidity: 10% ~ 90% RH					
Size and weight	W430*H44*L450 Approximately 3.5kg		W215*H44*L450 Approximately 2.8kg	W430*H44*L450 Approximately 3.5kg		
Note: All values are typical and will be exceeded under different loads or other conditions. Accuracy is measured under load-sensing conditions; actual values may deviate from rated values due to temperature errors and component aging.						
Note: FS represents full scale. The three digits indicate that the last digit of the display will jump three times.						

Specifications	200V Output Series				
Model	IPS-DH10-2004	IPS-DH10-2005	IPS-DH10-2008	IPS-DH10-20010	IPS-DH10-20015
AC input	Single-phase 220V±10%				
	Frequency 50Hz/60Hz				
Output voltage	0-200V				
Output current	0-4A	0-5A	0-8A	0-10A	0-15A
Output power	800W	1000W	1600W	2000W	3000W
Power stability	≦ 0.1%+10mV				
Load stability	≦ 0.1%+30mV				
Voltage regulation accuracy	≦ ±0.1%FS				
Steady flow accuracy	≦ ±0.1%FS				
Ripple (rms)	≤ 0.1%FS+10mV				
Voltage setting accuracy	±0.1%FS+10mV				
Current setting accuracy	±0.1%FS+10mA				
Voltage readback accuracy resolution	5-digit meter. Accuracy: ±0.1%FS + 3 digits (10%-100% of rated value).				
	10mV				
Current readback accuracy resolution	5-digit meter. Accuracy: ±0.1%FS + 3 digits (10%-100% of rated value).				
	1mA			10mA	
Display method	Broken code screen display				
Output overvoltage protection	The menu settings include O.V.P. protection; the protection value can be set arbitrarily, and the output will be turned off after protection is applied.				
Output overcurrent protection	The menu settings include O.I.P. protection; the protection value can be set arbitrarily, and output will be turned off after protection is enabled.				
Over-temperature protection	Built-in OTP protection, with a protection value of 85℃ ±5% (radiator temperature).				
Voltage setting	Menu settings, encoder knob input				
Current setting	Menu settings, encoder knob input				
Communication methods	RS-485/RS-232 (supports Modbus and SCPI protocols)				
Function	Constant voltage/constant current, foldback current protection, memory mode, list sequence loop, configurable ON/OFF time, pulse width output, 9999 cycles, three preset voltage and current sets (full width model), and key lock.				
Output polarity	The positive (+) and negative (-) outputs can be grounded arbitrarily.				
Heat dissipation method	Forced air cooling				
Operating environment	Designed for indoor use, with a temperature range of 0℃ to 40℃ and a humidity range of 10% to 85% RH.				
Storage environment	Temperature: -20℃ ~ 70℃ ; Humidity: 10% ~ 90% RH				
Size and weight	W215*H44*L450 (mm) Approximately 2.8 kg			W430*H44*L450 (mm) Approximately 3.5 kg	
Note: All values are typical and will be exceeded under different loads or other conditions. Accuracy is measured under load-sensing conditions; actual values may deviate from rated values due to temperature errors and component aging.					
Note: FS represents full scale. The three digits indicate that the last digit of the display will jump three times.					

Specifications	300V Output Series					
Model	IPS-DH10-3002	IPS-DH10-3003	IPS-DH10-3004	IPS-DH10-3005	IPS-DH10-3008	IPS-DH10-30010
AC input	Single-phase 220V ±10%					
	Frequency 50Hz/60Hz					
Output voltage	0-300V					
Output current	0-2A	0-3A	0-4A	0-5A	0-8A	0-10A
Output power	600W	900W	1200W	1500W	2400W	3000W
Power stability	≦ 0.1%+10mV					
Load stability	≦ 0.1%+30mV					
Voltage regulation accuracy	≦ ±0.1%FS					
Steady flow accuracy	≦ ±0.1%FS					
Ripple (rms)	≤ 0.1%FS+10mV					
Voltage setting accuracy	±0.1%FS+10mV					
Current setting accuracy	±0.1%FS+10mA					
Voltage readback accuracy resolution	5-digit display meter Accuracy: ±0.1%FS + 3 digits (10%-100% of rated value)					
	10mV					
Current readback accuracy resolution	5-digit display meter Accuracy: ±0.1%FS + 3 digits (10%-100% of rated value)					
	0.1mA					1mA
Display method	Segmented display monitor					
Output overvoltage protection	The menu allows setting OVP (Over-Voltage Protection), with the protection value being freely adjustable. The output will be shut off after protection is triggered.					
Output overcurrent protection	The menu allows you to set O.I.P. protection, with the protection value being freely adjustable. After protection is triggered, the output will be shut off.					
Over-temperature protection	Built-in OTP (Over-Temperature Protection), with a protection value of 85℃ ± 5% (heatsink temperature).					
Voltage setting	Menu settings, encoder knob input					
Current setting	Menu settings, encoder knob input					
Communication methods	RS-485/RS-232 (supports Modbus and SCPI protocols)					
Function	Constant voltage/constant current operation, foldback current protection, memory mode, LIST sequence cycling, adjustable ON/OFF time, pulse width output, 9999 cycles, three sets of preset voltage and current (full-width models), and key lock.					
Output polarity	The positive (+) and negative (-) outputs can be grounded arbitrarily.					
Heat dissipation method	Forced air cooling					
Operating environment	Designed for indoor use; operating temperature: 0℃ to 40℃ ; humidity: 10% to 85% RH.					
Storage environment	Temperature: -20℃ to 70℃ ; Humidity: 10% to 90% RH					
Size and weight	W215*H44*L450(mm) Approximately 2.8 kg				W430*H44*L450(mm) Approximately 3.5 kg	
Note: All values are typical values, and may be exceeded under different load or other conditions. Accuracy is measured with voltage sensing at the load end. Actual values may deviate from rated values due to temperature variations and component aging.						
Note: FS stands for full scale. The three characters indicate that the last digit of the display fluctuates by three digits.						

Specifications	500V output series					
Model	IPS-DH10-5001	IPS-DH10-5002	IPS-DH10-5003	IPS-DH10-5004	IPS-DH10-5005	IPS-DH10-5006
AC input	Single-phase 220V ±10%					
	Frequency 50Hz/60Hz					
Output voltage	0-500V					
Output current	0-1A	0-2A	0-3A	0-4A	0-5A	0-6A
Output power	500W	1000W	1500W	2000W	2500W	3000W
Power stability	≦ 0.1%+10mV					
Load stability	≦ 0.1%+30mV					
Voltage regulation accuracy	≦ ±0.1%FS					
Steady flow accuracy	≦ ±0.1%FS					
Ripple (rms)	≤ 0.1%FS+10mV					
Voltage setting accuracy	±0.1%FS+10mV					
Current setting accuracy	±0.1%FS+10mA					
Voltage readback accuracy resolution	5-digit display meter Accuracy: ±0.1%FS + 3 digits (10%-100% of rated value)					
	10mV					
Current readback accuracy resolution	5-digit display meter Accuracy: ±0.1%FS + 3 digits (10%-100% of rated value)					
	0.1mA					
Display method	Segmented display monitor					
Output overvoltage protection	The menu allows setting OVP (Over-Voltage Protection), with the protection value being freely adjustable. The output will be shut off after protection is triggered.					
Output overcurrent protection	The menu allows you to set O.I.P. protection, with the protection value being freely adjustable. After protection is triggered, the output will be shut off.					
Over-temperature protection	Built-in OTP (Over-Temperature Protection), with a protection value of 85℃ ± 5% (heatsink temperature).					
Voltage setting	Menu settings, encoder knob input					
Current setting	Menu settings, encoder knob input					
Communication methods	RS-485/RS-232 (supports Modbus and SCPI protocols)					
Function	Constant voltage/constant current operation, foldback current protection, memory mode, LIST sequence cycling, adjustable ON/OFF time, pulse width output, 9999 cycles, three sets of preset voltage and current (full-width models), and key lock.					
Output polarity	The positive (+) and negative (-) outputs can be grounded arbitrarily.					
Heat dissipation method	Forced air cooling					
Operating environment	Designed for indoor use; operating temperature: 0℃ to 40℃ ; humidity: 10% to 85% RH.					
Storage environment	Temperature: -20℃ to 70℃ ; Humidity: 10% to 90% RH					
Size and weight	W215*H44*L450 (mm) Approximately 2.8 kg			W430*H44*L450 (mm) Approximately 3.5 kg		
Note: All values are typical values, and may be exceeded under different load or other conditions. Accuracy is measured with voltage sensing at the load end. Actual values may deviate from rated values due to temperature variations and component aging.						
Note: FS stands for full scale. The three characters indicate that the last digit of the display fluctuates by three digits.						

Specifications	600V output series				
Model	IPS-DH10-6001	IPS-DH10-6002	IPS-DH10-6003	IPS-DH10-6004	IPS-DH10-6005
AC input	Single-phase 220V ±10%				
	Frequency 50Hz/60Hz				
Output voltage	0-600V				
Output current	0-1A	0-2A	0-3A	0-4A	0-5A
Output power	600W	1200W	1800W	2400W	3000W
Power stability	≦ 0.1%+10mV				
Load stability	≦ 0.1%+30mV				
Voltage regulation accuracy	≦ ±0.1%FS				
Steady flow accuracy	≦ ±0.1%FS				
Ripple (rms)	≤ 0.1%FS+10mV				
Voltage setting accuracy	±0.1%FS+10mV				
Current setting accuracy	±0.1%FS+10mA				
Voltage readback accuracy resolution	5-digit display meter Accuracy: ±0.1%FS + 3 digits (10%-100% of rated value)				
	10mV				
Current readback accuracy resolution	5-digit display meter Accuracy: ±0.1%FS + 3 digits (10%-100% of rated value)				
	0.1mA				
Display method	Segmented display monitor				
Output overvoltage protection	The menu allows setting OVP (Over-Voltage Protection), with the protection value being freely adjustable. The output will be shut off after protection is triggered.				
Output overcurrent protection	The menu allows you to set O.I.P. protection, with the protection value being freely adjustable. After protection is triggered, the output will be shut off.				
Over-temperature protection	Built-in OTP (Over-Temperature Protection), with a protection value of 85℃ ± 5% (heatsink temperature).				
Voltage setting	Menu settings, encoder knob input				
Current setting	Menu settings, encoder knob input				
Communication methods	RS-485/RS-232 (supports Modbus and SCPI protocols)				
Function	Constant voltage/current operation, foldback current protection, memory mode, LIST sequence cycling, adjustable ON/OFF time, pulse width output, 9999 cycles, three sets of preset voltage and current (full-width models), key lock.				
Output polarity	The positive (+) and negative (-) outputs can be grounded arbitrarily.				
Heat dissipation method	Forced air cooling				
Operating environment	Designed for indoor use; operating temperature: 0℃ to 40℃ ; humidity: 10% to 85% RH.				
Storage environment	Temperature: -20℃ to 70℃ ; Humidity: 10% to 90% RH				
Size and weight	W215*H44*L450 (mm),Approximately 2.8 kg		W430*H44*L450 (mm),Approximately 3.5 kg		
Note: All values are typical values, and may be exceeded under different load or other conditions. Accuracy is measured with voltage sensing at the load end. Actual values may deviate from rated values due to temperature variations and component aging.					
Note: FS stands for full scale. The three characters indicate that the last digit of the display fluctuates by three digits.					

Specifications	800V output series				1000V output series	
Model	IPS-DH10-8001	IPS-DH10-8002	IPS-DH10-8003	IPS-DH10-8004	IPS-DH10-1000/05	IPS-DH10-10001
AC input	Single-phase 220V ±10%					
	Frequency 50Hz/60Hz					
Output voltage	0-800V				0-1000V	
Output current	0-1A	0-2A	0-3A	0-4A	0-0.5A	0-1A
Output power	800W	1600W	2400W	3200W	500W	1000W
Power stability	≦ 0.1%+10mV					
Load stability	≦ 0.1%+30mV					
Voltage regulation accuracy	≦ ±0.1%FS					
Steady flow accuracy	≦ ±0.1%FS					
Ripple (rms)	≤ 0.1%FS+10mV					
Voltage setting accuracy	±0.1%FS+10mV					
Current setting accuracy	±0.1%FS+10mA					
Voltage readback accuracy resolution	5-digit display meter Accuracy: ±0.1%FS + 3 digits (10%-100% of rated value)					
	10mV				100mV	
Current readback accuracy resolution	5-digit display meter Accuracy: ±0.1%FS + 3 digits (10%-100% of rated value)					
	0.1mA				0.01mA	0.1mA
Display method	Segmented display monitor					
Output overvoltage protection	The menu allows setting OVP (Over-Voltage Protection), with the protection value being freely adjustable. The output will be shut off after protection is triggered.					
Output overcurrent protection	The menu allows you to set O.I.P. protection, with the protection value being freely adjustable. After protection is triggered, the output will be shut off.					
Over-temperature protection	Built-in OTP (Over-Temperature Protection), with a protection value of 85℃ ± 5% (heatsink temperature).					
Voltage setting	Menu settings, encoder knob input					
Current setting	Menu settings, encoder knob input					
Communication methods	RS-485/RS-232 (supports Modbus and SCPI protocols)					
Function	Constant voltage/constant current operation, foldback current protection, memory mode, LIST sequence cycling, adjustable ON/OFF time, pulse width output, 9999 cycles, three sets of preset voltage and current (full-width models), and key lock.					
Output polarity	The positive (+) and negative (-) outputs can be grounded arbitrarily.					
Heat dissipation method	Forced air cooling					
Operating environment	Designed for indoor use; operating temperature: 0℃ to 40℃ ; humidity: 10% to 85% RH.					
Storage environment	Temperature: -20℃ to 70℃ ; Humidity: 10% to 90% RH					
Size and weight	W430*H44*L450 (mm),Approximately 3.5 kg					
Note: All values are typical values, and may be exceeded under different load or other conditions. Accuracy is measured with voltage sensing at the load end. Actual values may deviate from rated values due to temperature variations and component aging.						
Note: FS stands for full scale. The three characters indicate that the last digit of the display fluctuates by three digits.						

Specifications	1000V output series		1200V output series			
Model	IPS-DH10-10002	IPS-DH10-10003	IPS-DH10-1200/05	IPS-DH10-1200/08	IPS-DH10-12001	IPS-DH10-12002
AC input	Single-phase 220V ±10%					
	Frequency 50Hz/60Hz					
Output voltage	0-1000V		0-1000V			
Output current	0-2A	0-3A	0-0.5A	0-0.8A	0-1A	0-2A
Output power	2000W	3000W	600W	960W	1200W	2400W
Power stability	≦ 0.1%+10mV					
Load stability	≦ 0.1%+30mV					
Voltage regulation accuracy	≦ ±0.1%FS					
Steady flow accuracy	≦ ±0.1%FS					
Ripple (rms)	≤ 0.1%FS+10mV					
Voltage setting accuracy	±0.1%FS+10mV					
Current setting accuracy	±0.1%FS+10mA					
Voltage readback accuracy resolution	5-digit display meter Accuracy: ±0.1%FS + 3 digits (10%-100% of rated value)					
	100mV					
Current readback accuracy resolution	5-digit display meter Accuracy: ±0.1%FS + 3 digits (10%-100% of rated value)					
	0.1mA		0.01mA		0.1mA	
Display method	Segmented display monitor					
Output overvoltage protection	The menu allows setting OVP (Over-Voltage Protection), with the protection value being freely adjustable. The output will be shut off after protection is triggered.					
Output overcurrent protection	The menu allows you to set O.I.P. protection, with the protection value being freely adjustable. After protection is triggered, the output will be shut off.					
Over-temperature protection	Built-in OTP (Over-Temperature Protection), with a protection value of 85℃ ± 5% (heatsink temperature).					
Voltage setting	Menu settings, encoder knob input					
Current setting	Menu settings, encoder knob input					
Communication methods	RS-485/RS-232 (supports Modbus and SCPI protocols)					
Function	Constant voltage/constant current operation, foldback current protection, memory mode, LIST sequence cycling, adjustable ON/OFF time, pulse width output, 9999 cycles, three sets of preset voltage and current (full-width models), and key lock.					
Output polarity	The positive (+) and negative (-) outputs can be grounded arbitrarily.					
Heat dissipation method	Forced air cooling					
Operating environment	Designed for indoor use; operating temperature: 0℃ to 40℃ ; humidity: 10% to 85% RH.					
Storage environment	Temperature: -20℃ to 70℃ ; Humidity: 10% to 90% RH					
Size and weight	W430*H44*L450 (mm) Approximately 3.5 kg					
Note: All values are typical values, and may be exceeded under different load or other conditions. Accuracy is measured with voltage sensing at the load end. Actual values may deviate from rated values due to temperature variations and component aging.						
Note: FS stands for full scale. The three characters indicate that the last digit of the display fluctuates by three digits.						

Model	Voltage	Current	Power	Resolution	Power supply dimensions - MM	Single unit outer carton dimensions - CM	Net weight/Gross weight - KG
IPS-DH10-3025	0-30V	0-25A	750W	1mV/1mA	215L*450W*44H	56*27*12	4.5KG/5.5KG
IPS-DH10-3030	0-30V	0-30A	900W	1mV/1mA	215L*450W*44H	56*27*12	4.5KG/5.5KG
IPS-DH10-3040	0-30V	0-40A	1200W	1mV/1mA	215L*450W*44H	56*27*12	4.5KG/5.5KG
IPS-DH10-3050	0-30V	0-50A	1500W	1mV/1mA	215L*450W*44H	56*27*12	4.5KG/5.5KG
IPS-DH10-3060	0-30V	0-60A	1800W	1mV/1mA	430L*450W*44H	53*49*12	8.5KG/9.5KG
IPS-DH10-3080	0-30V	0-80A	2400W	1mV/1mA	430L*450W*44H	53*49*12	8.5KG/9.5KG
IPS-DH10-30100	0-30V	0-100A	3000W	1mV/10mA	430L*450W*44H	53*49*12	8.5KG/9.5KG
IPS-DH10-5015	0-50V	0-15A	750W	1mV/1mA	215L*450W*44H	56*27*12	4.5KG/5.5KG
IPS-DH10-5020	0-50V	0-20A	1000W	1mV/1mA	215L*450W*44H	56*27*12	4.5KG/5.5KG
IPS-DH10-5030	0-50V	0-30A	1500W	1mV/1mA	215L*450W*44H	56*27*12	4.5KG/5.5KG
IPS-DH10-5040	0-50V	0-40A	2000W	1mV/1mA	430L*450W*44H	53*49*12	8.5KG/9.5KG
IPS-DH10-5050	0-50V	0-50A	2500W	1mV/1mA	430L*450W*44H	53*49*12	8.5KG/9.5KG
IPS-DH10-5060	0-50V	0-60A	3000W	1mV/1mA	430L*450W*44H	53*49*12	8.5KG/9.5KG
IPS-DH10-6012	0-60V	0-12.5A	750W	1mV/1mA	215L*450W*44H	56*27*12	4.5KG/5.5KG
IPS-DH10-6025	0-60V	0-25A	1500W	1mV/1mA	215L*450W*44H	56*27*12	4.5KG/5.5KG
IPS-DH10-6030	0-60V	0-30A	1800W	1mV/1mA	430L*450W*44H	53*49*12	4.5KG/5.5KG
IPS-DH10-6040	0-60V	0-40A	2400W	1mV/1mA	430L*450W*44H	53*49*12	8.5KG/9.5KG
IPS-DH10-6050	0-60V	0-50A	3000W	1mV/1mA	430L*450W*44H	53*49*12	8.5KG/9.5KG
IPS-DH10-1007	0-100V	0-7.5A	750W	10mV/0.1mA	215L*450W*44H	56*27*12	4.5KG/5.5KG
IPS-DH10-10010	0-100V	0-10A	1000W	10mV/1mA	215L*450W*44H	56*27*12	4.5KG/5.5KG
IPS-DH10-10020	0-100V	0-20A	2400W	10mV/1mA	430L*450W*44H	53*49*12	8.5KG/9.5KG
IPS-DH10-10030	0-100V	0-30A	3000W	10mV/1mA	430L*450W*44H	53*49*12	8.5KG/9.5KG
IPS-DH10-1505	0-150V	0-5A	750W	10mV/0.1mA	215L*450W*44H	56*27*12	4.5KG/5.5KG
IPS-DH10-15010	0-150V	0-10A	1500W	10mV/1mA	215L*450W*44H	56*27*12	4.5KG/5.5KG
IPS-DH10-15015	0-150V	0-15A	2250W	10mV/1mA	430L*450W*44H	53*49*12	8.5KG/9.5KG
IPS-DH10-15020	0-150V	0-20A	3000W	10mV/1mA	430L*450W*44H	53*49*12	8.5KG/9.5KG
IPS-DH10-2004	0-200V	0-4A	800W	10mV/0.1mA	215L*450W*44H	56*27*12	4.5KG/5.5KG
IPS-DH10-2005	0-200V	0-5A	1000W	10mV/0.1mA	215L*450W*44H	56*27*12	4.5KG/5.5KG
IPS-DH10-2008	0-200V	0-8A	1600W	10mV/0.1mA	215L*450W*44H	56*27*12	4.5KG/5.5KG
IPS-DH10-20010	0-200V	0-10A	2000W	10mV/1mA	430L*450W*44H	53*49*12	8.5KG/9.5KG

Model	Voltage	Current	Power	Resolution	Power supply dimensions - MM	Single unit outer carton dimensions - CM	Net weight/Gross weight - KG
IPS-DH10-20015	0-200V	0-15A	3000W	10mV/1mA	430L*450W*44H	53*49*12	8.5KG/9.5KG
IPS-DH10-3002	0-300V	0-2.5A	750W	10mV/0.1mA	215L*450W*44H	56*27*12	4.5KG/5.5KG
IPS-DH10-3003	0-300V	0-3A	900W	10mV/0.1mA	215L*450W*44H	56*27*12	4.5KG/5.5KG
IPS-DH10-3004	0-300V	0-4A	1200W	10mV/0.1mA	215L*450W*44H	56*27*12	4.5KG/5.5KG
IPS-DH10-3005	0-300V	0-5A	1500W	10mV/0.1mA	215L*450W*44H	56*27*12	4.5KG/5.5KG
IPS-DH10-3008	0-300V	0-8A	2400W	10mV/0.1mA	430L*450W*44H	53*49*12	8.5KG/9.5KG
IPS-DH10-30010	0-300V	0-10A	3000W	10mV/1mA	430L*450W*44H	53*49*12	8.5KG/9.5KG
IPS-DH10-5001	0-500V	0-1A	500W	10mV/0.1mA	215L*450W*44H	56*27*12	4.5KG/5.5KG
IPS-DH10-5002	0-500V	0-2A	1000W	10mV/0.1mA	215L*450W*44H	56*27*12	4.5KG/5.5KG
IPS-DH10-5003	0-500V	0-3A	1500W	10mV/0.1mA	215L*450W*44H	56*27*12	4.5KG/5.5KG
IPS-DH10-5004	0-500V	0-4A	2400W	10mV/0.1mA	430L*450W*44H	53*49*12	8.5KG/9.5KG
IPS-DH10-5005	0-500V	0-5A	2500W	10mV/0.1mA	430L*450W*44H	53*49*12	8.5KG/9.5KG
IPS-DH10-5006	0-500V	0-6A	3000W	10mV/0.1mA	430L*450W*44H	53*49*12	8.5KG/9.5KG
IPS-DH10-6001	0-600V	0-1A	600W	10mV/0.1mA	215L*450W*44H	56*27*12	4.5KG/5.5KG
IPS-DH10-6002	0-600V	0-2A	1200W	10mV/0.1mA	215L*450W*44H	56*27*12	4.5KG/5.5KG
IPS-DH10-6003	0-600V	0-3A	1800W	10mV/0.1mA	430L*450W*44H	53*49*12	8.5KG/9.5KG
IPS-DH10-6004	0-600V	0-4A	2400W	10mV/0.1mA	430L*450W*44H	53*49*12	8.5KG/9.5KG
IPS-DH10-6005	0-600V	0-6A	3000W	10mV/0.1mA	430L*450W*44H	53*49*12	8.5KG/9.5KG
IPS-DH10-8001	0-800V	0-1A	800W	10mV/0.1mA	430L*450W*44H	53*49*12	8.5KG/9.5KG
IPS-DH10-8002	0-800V	0-2A	1600W	10mV/0.1mA	430L*450W*44H	53*49*12	8.5KG/9.5KG
IPS-DH10-8003	0-800V	0-3A	2400W	10mV/0.1mA	430L*450W*44H	53*49*12	8.5KG/9.5KG
IPS-DH10-8004	0-800V	0-4A	3200W	10mV/0.1mA	430L*450W*44H	53*49*12	8.5KG/9.5KG
IPS-DH10-1000/05	0-1000V	0-0.5A	500W	100mV/0.1mA	430L*450W*44H	53*49*12	8.5KG/9.5KG
IPS-DH10-10001	0-1000V	0-1A	1000W	100mV/0.1mA	430L*450W*44H	53*49*12	8.5KG/9.5KG
IPS-DH10-10002	0-1000V	0-2A	2000W	100mV/0.1mA	430L*450W*44H	53*49*12	8.5KG/9.5KG
IPS-DH10-10003	0-1000V	0-3A	3000W	100mV/0.1mA	430L*450W*44H	53*49*12	8.5KG/9.5KG
IPS-DH10-1200/05	0-1200V	0-0.5A	600W	100mV/0.1mA	430L*450W*44H	53*49*12	8.5KG/9.5KG
IPS-DH10-1200/08	0-1200V	0-0.8A	960W	100mV/0.01mA	430L*450W*44H	53*49*12	8.5KG/9.5KG
IPS-DH10-12001	0-1200V	0-1A	1200W	100mV/0.1mA	430L*450W*44H	53*49*12	8.5KG/9.5KG
IPS-DH10-12002	0-1200V	0-2A	2400W	100mV/0.1mA	430L*450W*44H	53*49*12	8.5KG/9.5KG

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