UPW series

High Power Programmable DC Power Supply



Programmable switching DC power supply UPW series cover large range of outputs, rated power from 1.2kW to 100kW, rated voltage up to 5000V, rated current up to 10000A.

IGBT module adjustment and PWM modulation facilitate UPW series with high efficiency, high accuracy and high stability. High gain amplifier circuit design makes UPW series with fast response. Improvement on circuits brings stronger anti-interference performance. Active air duct design and optimized cooling channels effectively reduce temperature rise.

Over Voltage Protection, Over Current Protection and Over Temperature Protection keep the UPW series and their load safe from unexpected conditions. For more complicated applications, the UPW series are available with many optional functions: remote ON/OFF control, PV curve output, etc. UPW series can be made to customer order. Please contact us for more details.





Features

- Max. output voltage 5000V, Max. output current 10000A
- Applying IGBT module and 19-inch standard size
- 4 digits LCD display for voltage and current
- Constant voltage and constant current operations, auto CV/CC switch
- Front panel operation: preset voltage and current, output ON/OFF
- Multiple protections: OVP, OCP, OTP and OLP
- Transient response time 5ms
- No overshoot during startup
- Communication: RS232, RS485 and LAN interface (LAN not available for 1.2kW & 1.8kW models)
- Remote Sensing function: compensate the voltage drop (only for models ≤300V)
- Optional function
 - Parallel functions, max 8 units in parallel
 - Remote control: 0-5V, 0-10V or 4-20mA signal to control output voltage and current
 - Remote ON/OFF control: Interlock loop or 12V input control
 - Reverse current protection: to protect power supply from damage by reverse current from EUT
 - Reverse polarity switch: to allow change of positive and negative output polarity in reverse direction
 - PV curve output for solar panel tests
 - System Bus interface
- Customized specifications and functions acceptable

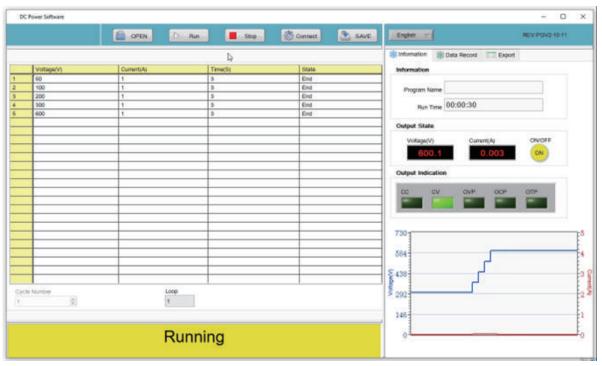




Free PC Software

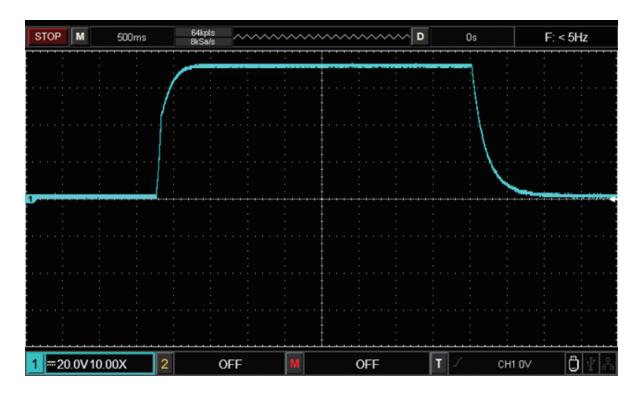
Multiple remote control and sampling functions. Such as: voltage, current and time setup & feedback, data recording, export data to EXCEL file. Operation in normal mode and cycle mode







No overshoot during startup

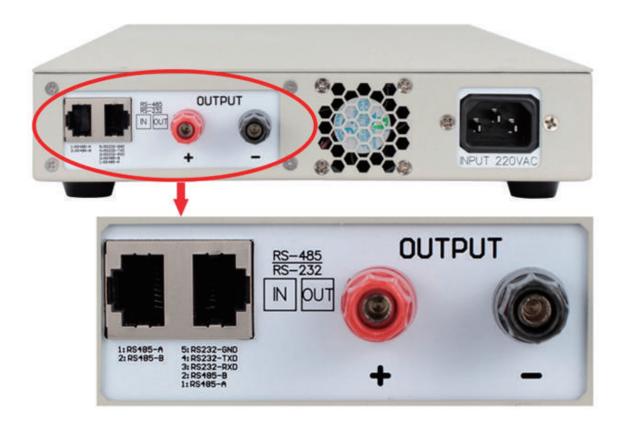






Photos (1.2kW & 1.8kW, cabinet size 1U half-width)







Photos (3.6kW, 6kW & 7.5kW, cabinet size 2U)







Photos (12kW & 15kW, cabinet size 3U)







Specifications

Model	DC Output		Line Regulation		Load Regulation		Ripple & Noise		Setting/Readback Accuracy		Resolution	
	Voltage	Current	CV	CC	CV	CC	CV (rms)	CC (rms)	cv	CC	V	Α
Power 1kW to	1.8kW, 1U h	alf-width fra	ame, Dimen	sions 218W	'44H*435D r	nm, Weight	approx 4.5kg, Input	1φ2W, 220V±10% 5	0Hz/60Hz			
UPW30-40	0~30V	0~40A	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.3%FS+50mV	≤0.3%FS+10mA	≤0.1%FS+20mV	≤0.3%FS+30mA	0.01V	0.01A
JPW60-20	0~60V	0~20A	≤0.2%FS	≤0.2%FS	≤0.1%FS	≤0.1%FS	≤0.3%FS+50mV	≤0.3%FS+10mA	≤0.1%FS+20mV	≤0.3%FS+30mA	0.01V	0.01A
JPW100-12	0~100V	0~12A	≤0.2%FS	≤0.2%FS	≤0.1%FS	≤0.1%FS	≤0.3%FS+100mV	≤0.3%FS+10mA	≤0.1%FS+20mV	≤0.3%FS+10mA	0.1V	0.01A
UPW300-4	0~300V	0~4A	≤0.2%FS	≤0.2%FS	≤0.1%FS	≤0.1%FS	≤0.3%FS+100mV	≤0.3%FS+10mA	≤0.1%FS+100mV	≤0.3%FS+10mA	0.1V	0.001
JPW600-2	0~600V	0~2A	≤0.2%FS	≤0.2%FS	≤0.1%FS	≤0.1%FS	≤0.3%FS+100mV	≤0.3%FS+10mA	≤0.1%FS+100mV	≤0.3%FS+10mA	0.1V	0.001
JPW30-60	0~30V	0~60A	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.3%FS+50mV	≤0.3%FS+10mA	≤0.1%FS+20mV	≤0.3%FS+30mA	0.01V	0.01A
UPW60-30	0~60V	0~30A	≤0.2%FS	≤0.2%FS	≤0.1%FS	≤0.1%FS	≤0.3%FS+50mV	≤0.3%FS+10mA	≤0.1%FS+20mV	≤0.3%FS+30mA	0.01V	0.01A
UPW100-18	0~100V	0~18A	≤0.2%FS	≤0.2%FS	≤0.1%FS	≤0.1%FS	≤0.3%FS+100mV	≤0.3%FS+10mA	≤0.1%FS+20mV	≤0.3%FS+10mA	0.1V	0.01A
UPW150-10	0~150V	0~10A	≤0.2%FS	≤0.2%FS	≤0.1%FS	≤0.1%FS	≤0.3%FS+100mV	≤0.3%FS+10mA	≤0.1%FS+100mV	≤0.3%FS+10mA	0.1V	0.001
UPW300-6	0~300V	0~6A	≤0.2%FS	≤0.2%FS	≤0.1%FS	≤0.1%FS	≤0.3%FS+100mV	≤0.3%FS+10mA	≤0.1%FS+100mV	≤0.3%FS+10mA	0.1V	0.001
UPW600-3	0~600V	0~3A	≤0.2%FS	≤0.2%FS	≤0.1%FS	≤0.1%FS	≤0.3%FS+100mV	≤0.3%FS+10mA	≤0.1%FS+100mV	≤0.3%FS+10mA	0.1V	0.001
JPW1000-1	0~1000V	0~1A	≤0.2%FS	≤0.2%FS	≤0.1%FS	≤0.1%FS	≤0.3%FS+100mV	≤0.3%FS+10mA	≤0.1%FS+100mV	≤0.3%FS+10mA	1V	0.001
JPW30-120	0~30V	0~120A		-0.00/ 50	-0.00/ 50							
IIPW30-120	0~30V											
	0.601/		≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.3%FS+50mV	≤0.3%FS+10mA	≤0.1%FS+20mV	≤0.3%FS+50mA	0.01V	0.1A
UPW60-60	0~60V	0~60A	≤0.2%FS	≤0.2%FS	≤0.1%FS	≤0.1%FS	≤0.3%FS+100mV	≤0.3%FS+10mA	≤0.1%FS+20mV	≤0.3%FS+50mA	0.01V	0.01
UPW60-60 UPW100-36	0~100V	0~60A 0~36A	≤0.2%FS ≤0.2%FS	≤0.2%FS ≤0.2%FS	≤0.1%FS ≤0.1%FS	≤0.1%FS ≤0.1%FS	≤0.3%FS+100mV ≤0.3%FS+100mV	≤0.3%FS+10mA ≤0.3%FS+10mA	≤0.1%FS+20mV ≤0.1%FS+20mV	≤0.3%FS+50mA ≤0.3%FS+30mA	0.01V 0.1V	0.01A
UPW60-60 UPW100-36 UPW200-18	0~100V 0~200V	0~60A 0~36A 0~18A	≤0.2%FS ≤0.2%FS ≤0.2%FS	≤0.2%FS ≤0.2%FS ≤0.2%FS	≤0.1%FS ≤0.1%FS ≤0.1%FS	≤0.1%FS ≤0.1%FS ≤0.1%FS	≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV	≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA	≤0.1%FS+20mV ≤0.1%FS+20mV ≤0.1%FS+100mV	≤0.3%FS+50mA ≤0.3%FS+30mA ≤0.3%FS+10mA	0.01V 0.1V 0.1V	0.01A 0.01A 0.01A
UPW60-60 UPW100-36 UPW200-18 UPW300-12	0~100V 0~200V 0~300V	0~60A 0~36A 0~18A 0~12A	≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS	≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS	≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS	≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS	≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV	≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA	≤0.1%FS+20mV ≤0.1%FS+20mV ≤0.1%FS+100mV ≤0.1%FS+100mV	≤0.3%FS+50mA ≤0.3%FS+30mA ≤0.3%FS+10mA ≤0.3%FS+10mA	0.01V 0.1V 0.1V 0.1V	0.01A 0.01A 0.01A 0.01A
UPW60-60 UPW100-36 UPW200-18 UPW300-12 UPW600-6	0~100V 0~200V 0~300V 0~600V	0~60A 0~36A 0~18A 0~12A 0~6A	≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS	≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS	≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS	≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS	≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV	≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA	≤0.1%FS+20mV ≤0.1%FS+20mV ≤0.1%FS+100mV ≤0.1%FS+100mV ≤0.1%FS+100mV	≤0.3%FS+50mA ≤0.3%FS+30mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA	0.01V 0.1V 0.1V 0.1V 0.1V	0.01A 0.01A 0.01A 0.01A 0.001
JPW60-60 JPW100-36 JPW200-18 JPW300-12 JPW600-6 JPW1000-3	0~100V 0~200V 0~300V 0~600V 0~1000V	0~60A 0~36A 0~18A 0~12A 0~6A 0~3A	≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS	≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS	≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.2%FS	≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.2%FS	≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV	≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA	≤0.1%FS+20mV ≤0.1%FS+20mV ≤0.1%FS+100mV ≤0.1%FS+100mV ≤0.1%FS+100mV ≤0.2%FS+100mV	≤0.3%FS+50mA ≤0.3%FS+30mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA	0.01V 0.1V 0.1V 0.1V 0.1V 1V	0.01A 0.01A 0.01A 0.01A 0.001
UPW60-60 UPW100-36 UPW200-18 UPW300-12	0~100V 0~200V 0~300V 0~600V	0~60A 0~36A 0~18A 0~12A 0~6A	≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS	≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS	≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS	≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS	≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV	≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA	≤0.1%FS+20mV ≤0.1%FS+20mV ≤0.1%FS+100mV ≤0.1%FS+100mV ≤0.1%FS+100mV	≤0.3%FS+50mA ≤0.3%FS+30mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA	0.01V 0.1V 0.1V 0.1V 0.1V	0.01A 0.01A 0.01A 0.01A 0.001
JPW60-60 JPW100-36 JPW200-18 JPW300-12 JPW600-6 JPW1000-3 JPW2000-1	0~100V 0~200V 0~300V 0~600V 0~1000V 0~2000V	0~60A 0~36A 0~18A 0~12A 0~6A 0~3A 0~1A	≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS	≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS	≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.2%FS ≤0.2%FS	≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.2%FS ≤0.2%FS	≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV	≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA	≤0.1%FS+20mV ≤0.1%FS+20mV ≤0.1%FS+100mV ≤0.1%FS+100mV ≤0.1%FS+100mV ≤0.2%FS+100mV	≤0.3%FS+50mA ≤0.3%FS+30mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA	0.01V 0.1V 0.1V 0.1V 0.1V 1V	0.01/ 0.01/ 0.01/ 0.01/ 0.00°
JPW60-60 JPW100-36 JPW200-18 JPW300-12 JPW600-6 JPW1000-3 JPW2000-1	0~100V 0~200V 0~300V 0~600V 0~1000V 0~2000V	0~60A 0~36A 0~18A 0~12A 0~6A 0~3A 0~1A	≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS	≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS	≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.2%FS ≤0.2%FS	≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.2%FS ≤0.2%FS	≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV	≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA	≤0.1%FS+20mV ≤0.1%FS+20mV ≤0.1%FS+100mV ≤0.1%FS+100mV ≤0.1%FS+100mV ≤0.2%FS+100mV	≤0.3%FS+50mA ≤0.3%FS+30mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA	0.01V 0.1V 0.1V 0.1V 0.1V 1V	0.01A 0.01A 0.01A 0.01A 0.001
JPW60-60 JPW100-36 JPW200-18 JPW300-12 JPW600-6 JPW1000-3 JPW2000-1 Power 6kW, 2	0~100V 0~200V 0~300V 0~600V 0~1000V 0~2000V	0~60A 0~36A 0~18A 0~12A 0~6A 0~3A 0~1A	≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS	≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS	≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.2%FS ≤0.2%FS	≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.2%FS ≤0.2%FS	≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV	≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA	≤0.1%FS+20mV ≤0.1%FS+20mV ≤0.1%FS+100mV ≤0.1%FS+100mV ≤0.1%FS+100mV ≤0.2%FS+100mV ≤0.2%FS+100mV	≤0.3%FS+50mA ≤0.3%FS+30mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA	0.01V 0.1V 0.1V 0.1V 0.1V 1V	0.01A 0.01A 0.01A 0.01A 0.001 0.001 0.001
JPW60-60 JPW100-36 JPW200-18 JPW300-12 JPW600-6 JPW1000-3 JPW2000-1 Power 6kW, 2 JPW20-300 JPW20-300	0~100V 0~200V 0~300V 0~600V 0~1000V 0~2000V U frame, Dim	0~60A 0~36A 0~18A 0~12A 0~6A 0~3A 0~1A ensions 48	≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS	≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS	≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS	≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.2%FS ≤0.2%FS	≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV	\$0.3%FS+10mA \$0.3%FS+10mA \$0.3%FS+10mA \$0.3%FS+10mA \$0.3%FS+10mA \$0.3%FS+10mA \$0.3%FS+10mA \$1.3%FS+10mA	≤0.1%FS+20mV ≤0.1%FS+20mV ≤0.1%FS+100mV ≤0.1%FS+100mV ≤0.1%FS+100mV ≤0.2%FS+100mV ≤0.2%FS+100mV ≤0.2%FS+100mV	≤0.3%FS+50mA ≤0.3%FS+30mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA	0.01V 0.1V 0.1V 0.1V 0.1V 1V 1V	0.01/ 0.01/ 0.01/ 0.00/ 0.00/ 0.00/ 0.00/
JPW60-60 JPW100-36 JPW200-18 JPW300-12 JPW600-6 JPW1000-3 JPW2000-1 Power 6kW, 2 JPW20-300 JPW20-300 JPW30-200 JPW60-100	0~100V 0~200V 0~300V 0~600V 0~1000V 0~2000V U frame, Dim	0~60A 0~36A 0~18A 0~12A 0~6A 0~3A 0~1A eensions 48	≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS	≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS	≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS	≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS	≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.5%FS+100mV ≤0.5%FS+100mV	≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA	≤0.1%FS+20mV ≤0.1%FS+20mV ≤0.1%FS+100mV ≤0.1%FS+100mV ≤0.1%FS+100mV ≤0.2%FS+100mV ≤0.2%FS+100mV ≤0.2%FS+100mV ≤0.2%FS+100mV	≤0.3%FS+50mA ≤0.3%FS+30mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.5%FS+100mA	0.01V 0.1V 0.1V 0.1V 0.1V 1V 1V 0.01V 0.01V	0.01/ 0.01/ 0.01/ 0.00/ 0.00/ 0.00/ 0.1A 0.1A
JPW60-60 JPW100-36 JPW200-18 JPW300-12 JPW600-6 JPW1000-3 JPW2000-1 Power 6kW, 2 JPW20-300 JPW20-300 JPW30-200 JPW60-100 JPW100-60	0~100V 0~200V 0~300V 0~600V 0~1000V 0~2000V U frame, Dim 0~20V 0~30V 0~60V 0~100V	0~60A 0~36A 0~18A 0~12A 0~6A 0~3A 0~1A ensions 48 0~300A 0~200A 0~100A 0~60A	≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS	≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS	≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS	≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS	≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.5%FS+100mV ≤0.5%FS+100mV ≤0.5%FS+100mV ≤0.3%FS+100mV	≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA	≤0.1%FS+20mV ≤0.1%FS+20mV ≤0.1%FS+100mV ≤0.1%FS+100mV ≤0.1%FS+100mV ≤0.2%FS+100mV ≤0.2%FS+100mV ≤0.1%FS+20mV ≤0.1%FS+20mV ≤0.1%FS+20mV ≤0.1%FS+20mV	≤0.3%FS+50mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.5%FS+100mA ≤0.5%FS+100mA ≤0.5%FS+100mA ≤0.3%FS+100mA	0.01V 0.1V 0.1V 0.1V 1V 1V 0.01V 0.01V 0.01V 0.01V 0.01V	0.01A 0.01A 0.001 0.001 0.001 0.001 0.001
UPW60-60 UPW100-36 UPW200-18 UPW300-12 UPW300-6 UPW1000-3 UPW2000-1 Power 6kW, 2 UPW20-300 UPW30-200 UPW30-200 UPW60-100 UPW400-60 UPW400-30	0~100V 0~200V 0~300V 0~600V 0~1000V 0~2000V U frame, Dim 0~20V 0~30V 0~60V 0~100V 0~200V	0~60A 0~36A 0~18A 0~12A 0~6A 0~3A 0~1A tensions 48 0~300A 0~200A 0~100A 0~60A 0~30A	≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS	≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS	≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.1%FS ≤0.1%FS	≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.1%FS	\$0.3%FS+100mV \$0.3%FS+100mV \$0.3%FS+100mV \$0.3%FS+100mV \$0.3%FS+100mV \$0.3%FS+100mV \$0.3%FS+100mV \$0.3%FS+100mV \$0.5%FS+100mV \$0.5%FS+100mV \$0.5%FS+100mV \$0.3%FS+100mV	\$0.3%FS+10mA \$0.3%FS+10mA \$0.3%FS+10mA \$0.3%FS+10mA \$0.3%FS+10mA \$0.3%FS+10mA \$0.3%FS+10mA \$0.3%FS+10mA \$0.3%FS+10mA \$0.3%FS+10mA \$0.3%FS+10mA \$0.3%FS+10mA \$0.3%FS+10mA \$0.3%FS+10mA	\$0.1%FS+20mV \$0.1%FS+20mV \$0.1%FS+100mV \$0.1%FS+100mV \$0.1%FS+100mV \$0.2%FS+100mV \$0.2%FS+100mV \$0.2%FS+100mV \$0.1%FS+20mV \$0.1%FS+20mV \$0.1%FS+20mV \$0.1%FS+20mV \$0.1%FS+20mV \$0.1%FS+20mV	\$0.3%FS+50mA \$0.3%FS+30mA \$0.3%FS+10mA \$0.3%FS+10mA \$0.3%FS+10mA \$0.3%FS+10mA \$0.3%FS+10mA \$0.5%FS+100mA \$0.5%FS+100mA \$0.3%FS+100mA \$0.3%FS+100mA	0.01V 0.1V 0.1V 0.1V 0.1V 1V 1V 0.01V 0.01V 0.01V 0.01V 0.01V 0.01V	0.01A 0.01A 0.001 0.001 0.001 0.001
JPW60-60 JPW100-36 JPW200-18 JPW300-12 JPW600-6 JPW1000-3 JPW2000-1 Power 6kW, 2 JPW20-300 JPW20-300 JPW30-200 JPW60-100 JPW100-60	0~100V 0~200V 0~300V 0~600V 0~1000V 0~2000V U frame, Dim 0~20V 0~30V 0~60V 0~100V	0~60A 0~36A 0~18A 0~12A 0~6A 0~3A 0~1A ensions 48 0~300A 0~200A 0~100A 0~60A	≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS	≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS	≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS	≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.1%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS ≤0.2%FS	≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.3%FS+100mV ≤0.5%FS+100mV ≤0.5%FS+100mV ≤0.5%FS+100mV ≤0.3%FS+100mV	≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA	≤0.1%FS+20mV ≤0.1%FS+20mV ≤0.1%FS+100mV ≤0.1%FS+100mV ≤0.1%FS+100mV ≤0.2%FS+100mV ≤0.2%FS+100mV ≤0.1%FS+20mV ≤0.1%FS+20mV ≤0.1%FS+20mV ≤0.1%FS+20mV	≤0.3%FS+50mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.3%FS+10mA ≤0.5%FS+100mA ≤0.5%FS+100mA ≤0.5%FS+100mA ≤0.3%FS+100mA	0.01V 0.1V 0.1V 0.1V 1V 1V 0.01V 0.01V 0.01V 0.01V 0.01V	0.01A 0.01A 0.001 0.001 0.001 0.001 0.001

- © Time drift: Voltage≤0.5%FS rms / Current≤1%FS rms
 © Temperature drift: Voltage≤0.1%FS rms/°C / Current≤0.3%FS rms/°C
 © Transient response time: ≤5ms (10% ~ 90% load change)
 © Remote sensing: Max compensation voltage 5V
 © Protection: OVP, OCP, OTP and short circuit protection
 © OVP setting range: 0.1V to 110% of rated voltage
 © OCP setting range: 0.1A to 110% of rated current

- The above models are listed for reference only. Customer specifications are welcome. Specifications are subject to change without prior notice.
- Digital interface: RS232, RS485 and LAN, support ModBus-RTU commands
 Analog interface (optional): 0-5V, 0-10V o 4-20mA interface for voltage/ current control and feedback
- © Cooling method : Forced air cool
- © Operating environment: 0℃-40℃, 10%-80%RH © Storage environment: -20℃-70℃, 10%-90%RH © Accessories: Operation manual x1, RS232 cable x1



Specifications

	DC Output		Line Regulation		Load Regulation		Ripple & Noise		Setting/Readback Accuracy		Resolution	
Model	Voltage	Current	CV	CC	CV	CC	CV (rms)	CC (rms)	cv	CC	V	Α
UPW30-250	0~30V	0~250A	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.5%FS+100mV	≤0.3%FS+10mA	≤0.1%FS+20mV	≤0.5%FS+100mA	0.01V	0.1A
UPW60-125	0~60V	0~125A	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.3%FS+100mV	≤0.3%FS+10mA	≤0.1%FS+20mV	≤0.5%FS+100mA	0.01V	0.1A
UPW150-50	0~150V	0~50A	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.3%FS+100mV	≤0.3%FS+10mA	≤0.1%FS+20mV	≤0.5%FS+30mA	0.1V	0.01A
UPW100-75	0~100V	0~75A	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.3%FS+100mV	≤0.3%FS+10mA	≤0.1%FS+20mV	≤0.5%FS+30mA	0.1V	0.01A
UPW300-25	0~300V	0~25A	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.3%FS+100mV	≤0.3%FS+10mA	≤0.1%FS+100mV	≤0.3%FS+10mA	0.1V	0.01A
UPW600-12	0~600V	0~12A	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.3%FS+100mV	≤0.3%FS+10mA	≤0.1%FS+100mV	≤0.3%FS+10mA	0.1V	0.01A
UPW1000-8	0~1000V	0~8A	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.3%FS+100mV	≤0.3%FS+10mA	≤0.2%FS+100mV	≤0.3%FS+10mA	1V	0.001
Power 12kW, 3	BU frame, Di	mensions 4	82W*132H*5 ≤0.2%FS	570D mm, W ≤0.2%FS	eight appro	x 25kg, Inpu ≤0.2%FS	ut 3φ4W, 380V±10% ≤1%FS+100mV	50Hz/60Hz ≤0.3%FS+10mA	≤0.1%F+20mV	≤0.5%FS+200mA	0.01V	0.1A
UPW10-500	0~10V	0~500A 0~1000A	≤0.2%FS ≤0.2%FS	≤0.2%FS ≤0.2%FS	≤0.2%FS ≤0.2%FS	≤0.2%FS ≤0.2%FS	≤1%FS+100mV ≤1%FS+100mV	≤0.3%FS+10mA ≤0.3%FS+10mA	≤0.1%F+20mV ≤0.1%F+20mV	≤0.5%FS+200mA ≤0.5%FS+200mA	0.01V	0.1A 0.1A
UPW20-600	0~10V	0~1000A	≤0.2%FS ≤0.2%FS	≤0.2%FS ≤0.2%FS	≤0.2%FS	≤0.2%FS	≤1%FS+100mV	≤0.3%FS+10MA	≤0.1%F+20mV	≤0.5%FS+200mA	0.01V	0.1A
UPW30-400	0~20V	0~600A 0~400A	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤1%FS+100mV	≤0.3%FS+10MA	≤0.1%F+20mV	≤0.5%FS+200mA	0.01V	0.1A
UPW60-200	0~60V	0~400A 0~200A	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.5%FS+100mV	≤0.3%FS+10MA	≤0.1%F+20mV	≤0.5%FS+200mA	0.01V	0.1A
UPW100-120	0~100V	0~200A 0~120A	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.3%FS+100mV	≤0.3%FS+10mA	≤0.1%FS+100mV	≤0.3%FS+100mA	0.01V	0.1A
UPW200-60	0~100V	0~120A 0~60A	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.3%FS+100mV	≤0.3%FS+10mA	≤0.1%FS+100mV	≤0.3%FS+100mA	0.1V	0.1A
UPW300-40	0~200V	0~40A	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.3%FS+100mV	≤0.3%FS+10mA	≤0.1%FS+100mV	≤0.3%FS+30mA	0.1V	0.1A
UPW400-30	0~400V	0~40A	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.3%FS+100mV	≤0.3%FS+10mA	≤0.2%FS+100mV	≤0.3% FS+10mA	0.1V	0.01A
UPW600-20	0~600V	0~20A	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.3%FS+100mV	≤0.3%FS+10mA	≤0.2%FS+100mV	≤0.3% FS+10mA	0.1V	0.01A
UPW800-15	0~800V	0~15A	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.3%FS+100mV	≤0.3%FS+10mA	≤0.2%FS+100mV	≤0.3% FS+10mA	0.1V	0.01A
UPW1000-12	0~1000V	0~12A	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.3%FS+100mV	≤0.3%FS+10mA	≤0.2%FS+100mV	≤0.3% FS+10mA	1V	0.01A
				·	•	• •	ut 3φ4W, 380V±10%			10 50/50 2000 1	0.041/	
UPW30-500	0~30V	0~500A	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤1%FS+100mV	≤0.3%FS+10mA	≤0.1%FS+20mV	≤0.5%FS+200mA	0.01V	0.1A
UPW50-300 UPW60-250	0~50V 0~60V	0~300A 0~250A	≤0.2%FS ≤0.2%FS	≤0.2%FS ≤0.2%FS	≤0.2%FS ≤0.2%FS	≤0.2%FS ≤0.2%FS	≤1%FS+100mV ≤1%FS+100mV	≤0.3%FS+10mA ≤0.3%FS+10mA	≤0.1%FS+20mV ≤0.1%FS+20mV	≤0.5%FS+200mA ≤0.5%FS+200mA	0.01V 0.01V	0.1A 0.1A
UPW60-250 UPW100-150	0~60V	0~250A 0~150A	≤0.2%FS ≤0.2%FS	≤0.2%FS ≤0.2%FS	≤0.2%FS ≤0.2%FS	≤0.2%FS ≤0.2%FS	≤1%FS+100mV ≤0.5%FS+100mV	≤0.3%FS+10mA ≤0.3%FS+10mA	1		0.01V	0.1A
UPW150-150	0~100V	0~150A 0~100A	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.5%FS+100mV	≤0.3%FS+10MA	≤0.1%FS+20mV ≤0.1%FS+20mV	≤0.5%FS+200mA ≤0.3%FS 100mA	0.01V	0.1A
UPW200-75	0~130V	0~100A 0~75A	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.3%FS+100mV	≤0.3%FS+10mA	≤0.1%FS+100mV	≤0.3%FS+30mA	0.1V	0.1A
UPW300-75	0~200V	0~75A	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.3%FS+100mV	≤0.3%FS+10mA	≤0.1%FS+100mV	≤0.3%FS+30mA	0.1V	0.01A
UPW500-30	0~500V	0~30A	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.3%FS+100mV	≤0.3%FS+10MA	≤0.1%FS+100mV	≤0.3%FS+30mA	0.1V	0.01A
UPW600-25	0~600V	0~30A 0~25A	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.3%FS+100mV	≤0.3%FS+10mA	≤0.1%FS+100mV	≤0.3%FS+30mA	0.1V	0.01A
	0~800V	0~23A 0~18A	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.3%FS+100mV	≤0.3%FS+10mA	≤0.1%FS+100mV	≤0.3%FS+10mA	0.1V	0.012
UPW800-18						_0.2 /01 0	-5.5701 5 1001114	-0.0701 O · 10111A	_5.2 /01 O · 100111V	_5.0 /01 O · 1011/A	J. I V	0.017
UPW800-18 UPW1000-15	0~1000V	0~15A	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.2%FS	≤0.3%FS+100mV	≤0.3%FS+10mA	≤0.2%FS+100mV	≤0.3%FS+10mA	1V	0.01A

- © Time drift : Voltage≤0.5%FS rms / Current≤1%FS rms
- Ime drift: Voltage≤0.5%+5 rms / Current≤1%+5 rms
 Temperature drift: Voltage≤0.1%FS rms/C / Current≤0.3%FS rms/C
 Transient response time: ≤5ms (10% ~ 90% load change)
 Remote sensing: Max compensation voltage 5V
 Protection: OVP, OCP, OTP and short circuit protection
 OVP setting range: 0.1V to 110% of rated voltage
 OCP setting range: 0.1A to 110% of rated current

The above models are listed for reference only. Customer specifications are welcome. Specifications are subject to change without prior notice.

- © Digital interface: RS232, RS485 and LAN, support ModBus-RTU commands
- Analog interface (optional): 0-5V, 0-10V o 4-20mA interface for voltage/

- © Ariang interact (optional): 0-34, 0-104 0 4-2011 current control and feedback

 © Cooling method: Forced air cool

 © Operating environment: 0'℃~40'ℂ, 10%~80%RH

 © Storage environment: -20'ℂ~70'ℂ, 10%~90%RH
- O Accessories: Operation manual x1, RS232 cable x1





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