

High Power Programmable DC Power Supply PWD Series

Introduction

Programmable switching DC power supply PWD series cover large range of outputs, rated power from 1kW to 100kW, rated voltage up to 3000V, rated current up to 3000A.

IGBT module adjustment and PWM modulation facilitate PWD series with high efficiency, high accuracy and high stability. High gain amplifier circuit design makes PWD 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 PWD series and their load safe from unexpected conditions. For more complicated applications, the PWD series are available with many optional functions: remote sensing, remote ON/OFF control, timer switch, square waveform output, PV curve output, etc.

PWD series can be made to customer order. Please contact us for more details.

Features

- ✓ Max. output voltage 3000V, Max. output current 3000A
- ✓ Applying IGBT module and 19-inch standard size
- ✓ **4 digits LCD display for voltage, current, power and load resistance**
- ✓ 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
- ✓ **Communication: RS-232 and RS-485 interface**
- ✓ Optional function
 - Remote control: 0-5V, 0-10V or 4-20mA signal to control output voltage and current
 - Remote Sensing: compensate the voltage drop
 - Remote ON/OFF control: using a replay to control the output
 - Timer Switch: turn on or off the output as per preset time
 - Square Waveform Output: output square waveform according to preset time and cycles
 - Reverse polarity protection: to protect power supply from damage by reverse current from EUT
 - PV curve output for solar panel tests
- ✓ Customized specifications and functions acceptable

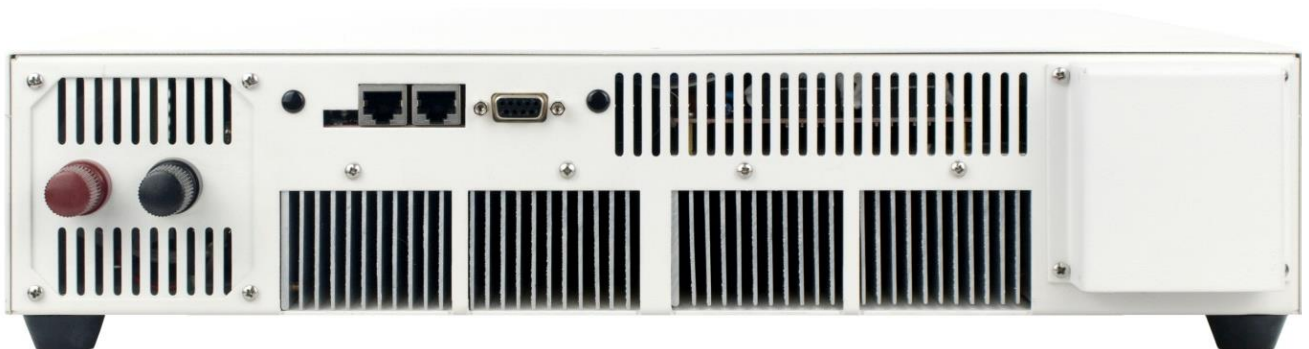
Product photo



1KW Frame



3KW Frame



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Specifications

Working mode	IGBT
Input	≤6KW: 1φ2W, 220V±10% 50Hz/60Hz > 6KW: 3φ4W, 380V±10% 50Hz/60Hz
Constant Voltage Operation	
Output voltage	DC 0~100% full range adjustable
Line regulation	≤0.3%FS rms
Load regulation	≤0.5%FS rms
Ripple & Noise	≤0.3%FS+10mVrms
Time drift	≤0.5%FS rms
Temperature drift	≤0.1%FS rms/°C
Setting accuracy	±(0.5% FS +50mV) (25±5°C)
Constant Current Operation	
Output Current	DC 0~100% full range adjustable
Line regulation	≤0.3%FS rms
Load regulation	≤0.5%FS rms
Ripple & Noise	≤0.5%FS+10mVrms
Time drift	≤1%FS rms
Temperature drift	≤0.3%FS rms/°C
Setting accuracy	±(0.5% FS +3 digits) (25±5°C)
Display	
Voltmeter	4 digits LCD display
Ammeter	4 digits LCD display
Voltage resolution	0.000V-9.999V; 0.00V-99.99V; 0.0V-999.9V; 0V-9999V
Current resolution	0.000A-9.999A; 0.00A-99.99A; 0.0A-999.9A; 0A-9999A
Reading accuracy	±(0.5% FS +3 digits) (25±5°C)
Protection	
Over Voltage Protection (O.V.P.)	Built-in OVP protection with limit of 110% rated voltage. The output will be shut down when OVP is activated.
Over Current Protection (O.C.P.)	Built-in OCP protection with limit of 110% rated current. The output will be shut down when OCP is activated.
Over Temperature Protection (O.T.P.)	Built-in OTP protection with heat sink temperature limit of 80°C±5%. The output will be shut down when OTP is activated.
General	
Cooling method	Air cool
Operating environment	0°C~40°C, 10%~80%RH
Storage environment	-20°C~70°C, 10%~90%RH
Input module	Power socket or terminal block
Accessories	Operation manual: 1EA

Selection guide

Model	Rated voltage	Rated current	Rated Power	Input Voltage	Weight (kg)	Dimension (mm)
PWD15-200	0~15V	0~200A	3KW	1P 220Vac	15kg	425W*88H*402D
PWD15-400	0~15V	0~400A	6KW	1P 220Vac	23kg	425W*132H*502D
PWD15-600	0~15V	0~600A	9KW	3P 380Vac	50kg	425W*300H*610D
PWD15-800	0~15V	0~800A	12KW	3P 380Vac	55kg	425W*300H*610D
PWD20-300	0~20V	0~300A	6KW	1P 220Vac	23kg	425W*132H*502D
PWD30-100	0~30V	0~100A	3KW	1P 220Vac	15kg	425W*88H*402D
PWD30-200	0~30V	0~200A	6KW	1P 220Vac	23kg	425W*132H*502D
PWD30-250	0~30V	0~250A	7.5KW	3P 380Vac	25kg	425W*132H*502D
PWD30-300	0~30V	0~300A	9KW	3P 380Vac	50kg	425W*300H*610D
PWD30-400	0~30V	0~400A	12KW	3P 380Vac	55kg	425W*300H*610D
PWD30-500	0~30V	0~500A	15KW	3P 380Vac	88kg	425W*554H*610D
PWD30-600	0~30V	0~600A	18KW	3P 380Vac	90kg	425W*554H*610D
PWD50-20	0~50V	0~20A	1KW	1P 220Vac	7kg	210W*88H*352D
PWD50-60	0~50V	0~60A	3KW	1P 220Vac	14kg	425W*88H*402D
PWD50-120	0~50V	0~120A	6KW	1P 220Vac	23kg	425W*132H*502D
PWD60-50	0~60V	0~50A	3KW	1P 220Vac	14kg	425W*88H*402D
PWD60-100	0~60V	0~100A	6KW	1P 220Vac	23kg	425W*132H*502D
PWD60-150	0~60V	0~150A	9KW	3P 380Vac	28kg	425W*132H*502D
PWD60-200	0~60V	0~200A	12KW	3P 380Vac	55kg	425W*300H*610D
PWD60-300	0~60V	0~300A	18KW	3P 380Vac	90kg	425W*554H*610D
PWD90-100	0~90V	0~100A	9KW	3P 380Vac	28kg	425W*132H*502D
PWD100-6	0~100V	0~6A	600W	1P 220Vac	6kg	210W*88H*352D
PWD100-10	0~100V	0~10A	1KW	1P 220Vac	7kg	210W*88H*352D
PWD100-30	0~100V	0~30A	3KW	1P 220Vac	14kg	425W*88H*402D
PWD100-60	0~100V	0~60A	6KW	1P 220Vac	23kg	425W*132H*502D
PWD100-120	0~100V	0~120A	12KW	3P 380Vac	55kg	425W*300H*610D
PWD150-20	0~150V	0~20A	3KW	1P 220Vac	14kg	425W*88H*402D
PWD150-40	0~150V	0~40A	6KW	1P 220Vac	25kg	425W*132H*502D
PWD150-60	0~150V	0~60A	9KW	3P 380Vac	28kg	425W*132H*502D
PWD150-80	0~150V	0~80A	12KW	3P 380Vac	55kg	425W*300H*610D
PWD150-100	0~150V	0~100A	15KW	3P 380Vac	85kg	425W*554H*610D
PWD200-3	0~200V	0~3A	600W	1P 220Vac	6kg	210W*88H*352D
PWD200-5	0~200V	0~5A	1KW	1P 220Vac	7kg	210W*88H*352D
PWD200-15	0~200V	0~15A	3KW	1P 220Vac	14kg	425W*88H*402D
PWD200-30	0~200V	0~30A	6KW	1P 220Vac	23kg	425W*132H*502D
PWD200-40	0~200V	0~40A	8KW	3P 380Vac	28kg	425W*132H*502D
PWD200-60	0~200V	0~60A	12KW	3P 380Vac	55kg	425W*300H*610D

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PWD200-200	0~200V	0~200A	40KW	3P 380Vac	150kg	505W*804H*688D
PWD250-40	0~250V	0~40A	10KW	3P 380Vac	55kg	425W*300H*610D
PWD300-2	0~300V	0~2A	600W	1P 220Vac	6kg	210W*88H*352D
PWD300-10	0~300V	0~10A	3KW	1P 220Vac	14kg	425W*88H*402D
PWD300-20	0~300V	0~20A	6KW	1P 220Vac	23kg	425W*132H*502D
PWD300-30	0~300V	0~30A	9KW	3P 380Vac	28kg	425W*132H*502D
PWD300-40	0~300V	0~40A	12KW	3P 380Vac	55kg	425W*300H*610D
PWD600-5	0~600V	0~5A	3KW	1P 220Vac	14kg	425W*88H*402D
PWD600-10	0~600V	0~10A	6KW	1P 220Vac	23kg	425W*132H*502D
PWD600-15	0~600V	0~15A	9KW	3P 380Vac	28kg	425W*132H*502D
PWD600-20	0~600V	0~20A	12KW	3P 380Vac	55kg	425W*300H*610D
PWD600-30	0~600V	0~30A	18KW	3P 380Vac	90kg	425W*554H*610D
PWD1000-1	0~1000V	0~1A	1KW	1P 220Vac	14kg	425W*88H*402D
PWD1000-3	0~1000V	0~3A	3KW	1P 220Vac	23kg	425W*132H*502D
PWD1000-5	0~1000V	0~5A	5KW	1P 220Vac	23kg	425W*132H*502D
PWD1000-10	0~1000V	0~10A	10KW	3P 380Vac	50kg	425W*300H*610D
PWD1000-15	0~1000V	0~15A	15KW	3P 380Vac	90kg	425W*554H*610D
PWD1000-20	0~1000V	0~20A	20KW	3P 380Vac	90kg	425W*554H*610D
PWD1500-5	0~1500V	0~5A	7.5KW	3P 380Vac	75kg	425W*300H*610D
PWD2000-1	0~2000V	0~1A	2KW	1P 220Vac	15kg	425W*88H*402D
PWD2000-3	0~2000V	0~3A	6KW	3P 380Vac	48kg	425W*300H*610D
PWD2000-5	0~2000V	0~5A	10KW	3P 380Vac	85kg	425W*554H*610D
PWD2000-10	0~2000V	0~10A	20KW	3P 380Vac	130kg	505W*804H*688D
PWD2000-20	0~2000V	0~20A	40KW	3P 380Vac	190kg	505W*980H*760D

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