

Switching Mode DC Power Supply

PROGRAMMABLE, HIGH POWER



PCL SERIES

0~6V~600V

0~1.2A~300A

600W~6000W



FEATURES

- Max. rated output 600W, 1200W, 2400W, 3000W and 6000W
- Max. rated voltage from 6V to 600V
- Max. rated current from 1.2A to 300A
- Adopting ZVZCS PWM technology, high efficiency and high stability
- 4 digits LED display for voltage and current
- Constant voltage and constant current operations
- Auto CV/CC switch
- Low ripple, high stability
- Panel lock and output ON/OFF function
- Preset function, setting of voltage and current with output open circuit
- Over voltage, over temperature, under voltage and current limit protections
- Built into 19-inch standard chassis, easy use in cabinet installation and auto test system integration
- Thermostatic control fan, low noise
- Multiple programming interfaces: RS-232, RS-485 and RS-422
- Support ModBus-RTU commands

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SPECIFICATIONS

Output capacity	600W~6000W
Working mode	ZVZCS PWM
Output	
Output voltage	DC 0~100% full range adjustable
Output current	DC 0~100% full range adjustable
O.V.P. range	DC 0.1V~105% rated output
Display	
Voltmeter	4 digits LED display
Ammeter	4 digits LED display
Voltage resolution	0.000-9.999V; 00.00-99.99V; 000.0-999.9V
Current resolution	0.000-9.999A; 00.00-99.99A; 000.0-999.9A
Voltage accuracy	≤0.2%+2LSB
Current accuracy	≤0.5%+2LSB
General	
Protection	Adjustable OVP protection with limit of 105% rated output voltage Built-in OTP protection with heat sink temperature limit of 50°C±5%. The output will be shut down when OTP is activated. Built-in UVP protection with limit of 165Vac. The output will be shut down when UVP is activated.
Panel lock	Provided
Interface	RS-232 / RS-485 / RS-422 interface, support ModBus-RTU commands
Cooling method	Cooling fan
Operating environment	0°C~40°C, <80%RH
Storage environment	-10°C~70°C, <80%RH
Power source	Single phase AC220V±10%, 50/60Hz for 600W, 1200W, 2400W and 3000W models Three phase AC380V±10%, 50/60Hz for 6000W models
Input module	Power socket or terminal block
Accessories	Power cord x1, Operation manual x1, RS-232 cable x1
Dimension (WxHxD)	213x88x340mm for 600W models 482x88x460mm for 1200W, 2400W and 3000W models 482x132x535mm for 6000W models
Weight	Approx. 5kg for 600W models Approx. 11~15kg for 1200W, 2400W and 3000W models Approx. 35kg for 6000W models

SELECTION GUIDE

Model	PCL600-1H	PCL600-150	PCL600-2H	PCL600-3H	PCL600-4H	PCL600-5H
Output voltage	0~100V	0~150V	0~200V	0~300V	0~400V	0~500V
Output current	0~6A	0~4A	0~3A	0~2A	0~1.5A	0~1.2A
O.V.P. range	0.1~105V	0.1~157.5V	0.1~210V	0.1~315V	0.1~420V	0.1~525V
Line regulation	CV≤0.1%+2LSB, CC≤0.1%+2LSB					
Load regulation	CV≤0.1%+2LSB, CC≤0.2%+2LSB					
Ripple & Noise	≤100mV	≤100mV	≤200mV	≤200mV	≤200mV	≤200mV
Setting resolution	100mV/1mA					
Reading resolution	100mV/1mA					

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SELECTION GUIDE

Model	PCL1200-6	PCL1200-12	PCL1200-15	PCL1200-30	PCL1200-60	PCL1200-1H	PCL1200-150	PCL1200-2H
Output voltage	0~6V	0~12V	0~15V	0~30V	0~60V	0~100V	0~150V	0~200V
Output current	0~200A	0~100A	0~80A	0~40A	0~20A	0~12A	0~8A	0~6A
O.V.P. range	0.1~6.3V	0.1~12.6V	0.1~15.75V	0.1~31.5V	0.1~63V	0.1~105V	0.1~157.5V	0.1~210V
Line regulation	CV≤0.1%+2LSB, CC≤0.1%+2LSB							
Load regulation	CV≤0.2%+2LSB			CV≤0.1%+2LSB				
	CC≤0.2%+2LSB			CC≤0.1%+2LSB				
Ripple & Noise	≤50mV	≤50mV	≤50mV	≤50mV	≤50mV	≤100mV	≤100mV	≤100mV
Setting resolution	1mV/100mA	10mV/100mA	10mV/10mA	10mV/10mA	10mV/10mA	100mV/10mA	100mV/1mA	100mV/1mA
Reading resolution	1mV/100mA	10mV/100mA	10mV/10mA	10mV/10mA	10mV/10mA	100mV/10mA	100mV/1mA	100mV/1mA

Model	PCL1200-3H	PCL1200-4H	PCL1200-5H	PCL1200-6H	PCL2400-12	PCL2400-20	PCL2400-30	PCL2400-40
Output voltage	0~300V	0~400V	0~500V	0~600V	0~12V	0~20V	0~30V	0~40V
Output current	0~4A	0~3A	0~2.4A	0~2A	0~200A	0~120A	0~80A	0~60A
O.V.P. range	0.1~315V	0.1~420V	0.1~525V	0.1~630V	0.1~12.6V	0.1~21V	0.1~31.5V	0.1~42V
Line regulation	CV≤0.1%+2LSB, CC≤0.1%+2LSB							
Load regulation	CV≤0.1%+2LSB, CC≤0.1%+2LSB							
Ripple & Noise	≤100mV	≤100mV	≤200mV	≤200mV	≤100mV	≤100mV	≤100mV	≤100mV
Setting resolution	100mV/1mA	100mV/1mA	100mV/1mA	100mV/1mA	10mV/100mA	10mV/100mA	10mV/10mA	10mV/10mA
Reading resolution	100mV/1mA	100mV/1mA	100mV/1mA	100mV/1mA	10mV/100mA	10mV/100mA	10mV/10mA	10mV/10mA

Model	PCL2400-60	PCL2400-1H	PCL2400-150	PCL2400-2H	PCL2400-3H	PCL2400-4H	PCL2400-50H	PCL2400-6H
Output voltage	0~60V	0~100V	0~150V	0~200V	0~300V	0~400V	0~500V	0~600V
Output current	0~40A	0~24A	0~16A	0~12A	0~8A	0~6A	0~4.8A	0~4A
O.V.P. range	0.1~63V	0.1~105V	0.1~157.5V	0.1~210V	0.1~315V	0.1~420V	0.1~525V	0.1~630V
Line regulation	CV≤0.1%+2LSB, CC≤0.1%+2LSB							
Load regulation	CV≤0.1%+2LSB, CC≤0.1%+2LSB							
Ripple & Noise	≤100mV	≤100mV	≤100mV	≤100mV	≤200mV	≤200mV	≤200mV	≤200mV
Setting resolution	10mV/10mA	100mV/10mA	100mV/10mA	100mV/10mA	100mV/1mA	100mV/1mA	100mV/1mA	100mV/1mA
Reading resolution	10mV/10mA	100mV/10mA	100mV/10mA	100mV/10mA	100mV/1mA	100mV/1mA	100mV/1mA	100mV/1mA

Model	PCL3000-20	PCL3000-30	PCL3000-40	PCL3000-60	PCL3000-1H	PCL3000-150	PCL3000-2H	PCL3000-3H	PCL3000-4H	PCL3000-5H
Output voltage	0~20V	0~30V	0~40V	0~60V	0~100V	0~150V	0~200V	0~300V	0~400V	0~500V
Output current	0~150A	0~100A	0~75A	0~50A	0~30A	0~20A	0~15A	0~10A	0~7.5A	0~6A
O.V.P. range	0.1~21V	0.1~31.5V	0.1~42V	0.1~63V	0.1~105V	0.1~157.5V	0.1~210V	0.1~315V	0.1~420V	0.1~525V
Line regulation	CV≤0.1%+2LSB, CC≤0.1%+2LSB									
Load regulation	CV≤0.1%+2LSB, CC≤0.1%+2LSB									
Ripple & Noise	≤100mV	≤100mV	≤100mV	≤100mV	≤100mV	≤200mV	≤200mV	≤200mV	≤200mV	≤200mV
Setting resolution	10mV/100mA	10mV/100mA	10mV/10mA	10mV/10mA	100mV/10mA	100mV/10mA	100mV/10mA	100mV/10mA	100mV/1mA	100mV/1mA
Reading resolution	10mV/100mA	10mV/100mA	10mV/10mA	10mV/10mA	100mV/10mA	100mV/10mA	100mV/10mA	100mV/10mA	100mV/1mA	100mV/1mA