

Switching Mode DC Power Supply

PROGRAMMABLE, HIGH POWER, HIGH VOLTAGE

PCH SERIES

0V~ +1kV~ +12kV
 -200V~ -1kV~ -12kV
 0~50mA~1200mA
 600W / 1200W



FEATURES

- Max. rated output 600W and 1200W
- Max. rated voltage from +1kV to +12kV
- Optional negative output from -1kV to -12kV
- Max. rated current from 50mA to 1200mA
- 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 / 1200W
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	0000-9999V; 00000-19999V
Current resolution	00.00mA-99.99mA; 000.0mA-999.9mA; 0000mA-9999mA
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	AC220V±10%, 50/60Hz
Accessories	Power cord x1, Operation manual x1, RS-232 cable x1, High voltage test lead x1
Dimension (WxHxD)	482x88x460mm
Weight	Approx. 11~14kg

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SELECTION GUIDE

Model	PCH600-10H	PCH600-12H	PCH600-15H	PCH600-20H	PCH600-30H	PCH600-40H	PCH600-50H
	PCH600-10HN	PCH600-12HN	PCH600-15HN	PCH600-20HN	PCH600-30HN	PCH600-40HN	PCH600-50HN
Output voltage	0~1000V	0~1200V	0~1500V	0~2000V	300~3000V	400~4000V	500~5000V
	-200~-1000V	-240~-1200V	-300~-1500V	-400~-2000V	-600~-3000V	-800~-4000V	-1000~-5000V
Output current	0~600mA	0~500mA	0~400mA	0~300mA	0~200mA	0~150mA	0~120mA
O.V.P. range	1~1050V	100~1260V	100~1575V	200~2100V	300~3150V	400~4200V	500~5250V
	-200~-1050V	-240~-1260V	-300~-1575V	-400~-2100V	-600~-3150V	-800~-4200V	-1000~-5250V
Line regulation	CV≤0.1%+2LSB, CC≤0.1%+2LSB						
Load regulation	CV≤0.5%+2LSB, CC≤0.5%+2LSB						
Ripple & Noise	≤0.05% FS	≤0.05% FS	≤0.05% FS	≤0.1% FS	≤0.1% FS	≤0.1% FS	≤0.1% FS
Setting resolution	1V/0.1mA	1V/0.1mA	1V/0.1mA	1V/0.1mA	1V/0.1mA	1V/0.1mA	1V/0.1mA
Reading resolution	1V/0.1mA	1V/0.1mA	1V/0.1mA	1V/0.1mA	1V/0.1mA	1V/0.1mA	1V/0.1mA

Model	PCH600-60H	PCH600-80H	PCH600-100H	PCH600-120H	PCH1200-10H	PCH1200-12H
	PCH600-60HN	PCH600-80HN	PCH600-100HN	PCH600-120HN	PCH1200-10HN	PCH1200-12HN
Output voltage	600~6000V	800~8000V	1000~10000V	1200~12000V	0~1000V	0~1200V
	-1200~-6000V	-1600~-8000V	-2000~-10000V	-2400~-12000V	-200~-1000V	-240~-1200V
Output current	0~100mA	0~75mA	0~60mA	0~50mA	0~1200mA	0~1000mA
O.V.P. range	600~6120V	800~8400V	1000~10500V	1200~12600V	1~1050V	100~1260V
	-1200~-6120V	-1600~-8400V	-2000~-10500V	-2400~-12600V	-200~-1050V	-240~-1260V
Line regulation	CV≤0.1%+2LSB, CC≤0.1%+2LSB					
Load regulation	CV≤0.5%+2LSB, CC≤0.5%+2LSB					
Ripple & Noise	≤0.1% FS	≤0.1% FS	≤0.1% FS	≤0.1% FS	≤0.1% FS	≤0.1% FS
Setting resolution	1V/0.1mA	1V/0.01mA	1V/0.01mA	1V/0.01mA	1V/1mA	1V/1mA
Reading resolution	1V/0.1mA	1V/0.01mA	1V/0.01mA	1V/0.01mA	1V/1mA	1V/1mA

Model	PCH1200-15H	PCH1200-20H	PCH1200-30H	PCH1200-40H	PCH1200-50H	PCH1200-60H
	PCH1200-15HN	PCH1200-20HN	PCH1200-30HN	PCH1200-40HN	PCH1200-50HN	PCH1200-60HN
Output voltage	0~1500V	0~2000V	300~3000V	400~4000V	500~5000V	600~6000V
	-300~-1500V	-400~-2000V	-600~-3000V	-800~-4000V	-1000~-5000V	-1200~-6000V
Output current	0~800mA	0~800mA	0~400mA	0~300mA	0~240mA	0~200mA
O.V.P. range	100~1575V	200~2100V	300~3150V	400~4200V	500~5250V	600~6120V
	-300~-1575V	-400~-2100V	-600~-3150V	-800~-4200V	-1000~-5250V	-1200~-6120V
Line regulation	CV≤0.1%+2LSB, CC≤0.1%+2LSB					
Load regulation	CV≤0.5%+2LSB, CC≤0.5%+2LSB					
Ripple & Noise	≤0.1% FS	≤0.1% FS	≤0.1% FS	≤0.1% FS	≤0.1% FS	≤0.1% FS
Setting resolution	1V/0.1mA	1V/0.1mA	1V/0.1mA	1V/0.1mA	1V/0.1mA	1V/0.1mA
Reading resolution	1V/0.1mA	1V/0.1mA	1V/0.1mA	1V/0.1mA	1V/0.1mA	1V/0.1mA

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