

PPW series (300W~900W, 1mV/1mA, with RS-232 interface)

Introduction

PPW series are high accuracy programmable DC power supply with single output. MPU control, RS-232/RS-485/USB interface for PC control, the PPW series facilitates auto test and auto control. The commands of the PPW series are compliant with SCPI commands. Users can easily develop programs to facilitate different applications in auto test and auto control. Digital input fulfilled by rotary dial and keypad input, fast and accurate. Voltage and current regulations by software, avoids human error and makes the PPW series more accurate.

Features

- ✓ High accuracy, high resolution
- ✓ Over load, over voltage, over current, over temperature and reverse polarity protections
- ✓ Constant voltage and constant current operations, auto CV and CC switch
- ✓ 4.3-inch backlit Segment LCD display
- ✓ High speed rotary dial and keypad input
- ✓ Built-in beeper alarm
- ✓ Panel lock and output ON/OFF function
- ✓ List mode function, 100 sets save & recall for voltage, current and time setups, easy use in auto test
- ✓ Remote sense function
- ✓ Low resistance measurement function, display load resistance value
- ✓ Battery charge mode
- ✓ Standard RS-232 interface, support SCPI commands, support Labview
- ✓ Optional RS-485 interface, support Modbus
- ✓ Optional RS-232 to USB cable
- ✓ Optional 0-5V analog control

Product photo

PPW-3020



Specifications (600W)

Model	PPW-2030	PPW-3010	PPW-3020	PPW-6010	PPW-8008
Rated output (0°C~40°C)					
Voltage	0~20V	0~30V	0~30V	0~60V	0~80V
Current	0~30A	0~10A	0~20A	0~10A	0~7.5A
O.V.P	0.1~24V	0.1~34V	0.1~34V	0.1~64V	0.1~88V
O.C.P	0.1~34A	0.1~12A	0.1~24A	0.1~12A	0.1~8.8A
Constant Voltage Operation					
Line regulation	≤0.01%+4mV				
Load regulation	≤0.1%+5mV				
Ripple & Noise (20Hz~20MHz)	2mVrms, 30mVpp				
Recovery time	≤1.5ms (50% load change)				
Constant Current Operation					
Line regulation	≤0.2%+3mA				
Load regulation	≤0.2%+5mA				
Ripple & Noise	≤10mArms				
Display					
Voltmeter	5 digits LCD display				
Ammeter	5 digits LCD display				
Setting resolution	1mV/1mA				
Reading resolution	1mV/1mA				
Setting accuracy (25±5°C)	Voltage	±(0.03% of reading + 10mV)			
	Current	±(0.3% of reading + 10mA)			
Reading accuracy (25±5°C)	Voltage	±(0.02% of reading +5mV)			
	Current	±(0.3% of reading +10mA)			
General					
Protection	Over load, over voltage, over current, over temperature and reverse polarity protections				
Panel lock	Provided				
Remote sense function	Maximum compensation voltage 0.1V@ Maximum output				
Battery charge	Lithium battery curve charge				
Interface	RS232 interface, Support SCPI commands				
	Optional RS485 interface, support ModBus				
	Optional RS232 to USB cable				
	Optional 0-5V analog control				
Memory	100 sets				
Insulation	Between base and terminals: ≤60VDC				
Operating environment	Indoor use	Altitude: ≤2000m	Ambient temperature: 0~40°C		
	Relative humidity: ≤80%	Installation category: II	Pollution degree: 2		
Storage environment	-10°C~70°C, ≤70%RH				
Power source	AC220V±10%, 50/60Hz				
Accessories	Power cord x1, Operation manual x1, RS232 cable x1, Software CD x1				
Dimension (WxHxD)	215x89x352mm				
Weight	4.5kg				

Specifications (900W)

Model	PPW-1560	PPW-2045	PPW-3030	PPW-6015	PPW-8011
Rated output (0°C~40°C)					
Voltage	0~15V	0~20V	0~30V	0~60V	0~80V
Current	0~60A	0~45A	0~30A	0~15A	0~11A
O.V.P	0.1~18V	0.1~24V	0.1~34V	0.1~64V	0.1~88V
O.C.P	0.1~62A	0.1~50A	0.1~34A	0.1~17A	0.1~12A
Constant Voltage Operation					
Line regulation	≤0.01%+4mV				
Load regulation	≤0.1%+5mV				
Ripple & Noise (20Hz~20MHz)	2mVrms, 30mVpp				
Recovery time	≤1.5ms (50% load change)				
Constant Current Operation					
Line regulation	≤0.2%+3mA				
Load regulation	≤0.2%+5mA				
Ripple & Noise	≤10mArms				
Display					
Voltmeter	5 digits LCD display				
Ammeter	5 digits LCD display				
Setting resolution	1mV/1mA				
Reading resolution	1mV/1mA				
Setting accuracy (25±5°C)	Voltage	±(0.03% of reading + 10mV)			
	Current	±(0.3% of reading + 10mA)			
Reading accuracy (25±5°C)	Voltage	±(0.02% of reading +5mV)			
	Current	±(0.3% of reading +10mA)			
General					
Protection	Over load, over voltage, over current, over temperature and reverse polarity protections				
Panel lock	Provided				
Remote sense function	Maximum compensation voltage 0.1V@ Maximum output				
Battery charge	Lithium battery curve charge				
Interface	RS232 interface, Support SCPI commands				
	Optional RS485 interface, support ModBus				
	Optional RS232 to USB cable				
	Optional 0-5V analog control				
Memory	100 sets				
Insulation	Between base and terminals: ≤60VDC				
Operating environment	Indoor use	Altitude: ≤2000m	Ambient temperature: 0~40°C		
	Relative humidity: ≤80%	Installation category: II	Pollution degree: 2		
Storage environment	-10°C~70°C, ≤70%RH				
Power source	AC220V±10%, 50/60Hz				
Accessories	Power cord x1, Operation manual x1, RS232 cable x1, Software CD x1				
Dimension (WxHxD)	215x89x412mm				
Weight	5.5kg				

Specifications are subject to change without prior notice.

TWINTEX • www.twintex.com.tw

Taipei, Taiwan: Tel: +886-02-2915 0101 • Fax: +886-02-2916 0101
 Shenzhen, China: Tel.: +86-755-2812 9890 • Fax: +86-755-2814 9802