

## PPW series (1mV/1mA, with USB or RS232 interface)

### Introduction

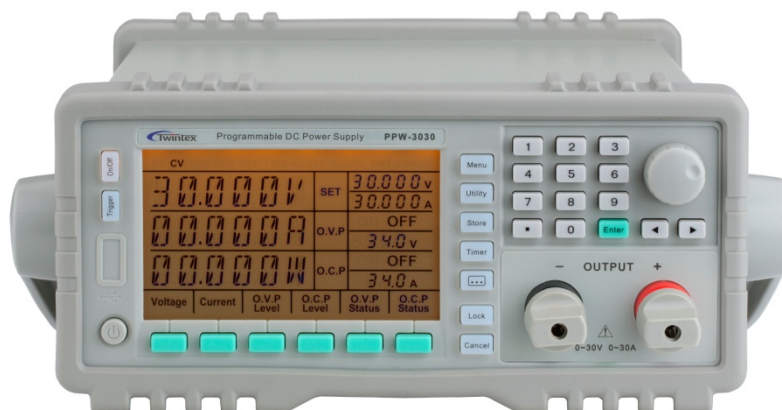
PPW series is a high accuracy programmable DC power supply with single output. MPU control, RS232/RS485/USB interface for PC control, the PPW series facilitates auto test and auto control. The commands of the PPW series are compliant with SCPI commands. Users can easily develop programs to facilitate 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
- ✓ CV and CC operations, auto CV and CC switch
- ✓ 4.3-inch backlit 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 function
- ✓ Standard RS232 interface, support SCPI commands, support Labview
- ✓ Optional RS485 interface, support ModBus
- ✓ Optional RS232-to-USB cable
- ✓ Optional 0-5V analog control

### Product photo

**PPW-3030**



# Programmable Switching DC Power Supply



## 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
OVP	0.1~24V	0.1~34V	0.1~34V	0.1~64V	0.1~88V
OCP	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	2mVrms, 30mVpp (20Hz~20MHz)				
Recovery time	≤1.5ms (50% load change)				
Temperature coefficient	≤300ppm/°C				
Setting accuracy	±(0.03% of reading + 10mV) (25±5°C)				
Setting resolution	1mV				
Constant Current Operation					
Line regulation	≤0.2%+3mA				
Load regulation	≤0.2%+5mA				
Ripple & Noise	≤10mArms				
Setting accuracy	±(0.3% of reading + 10mA) (25±5°C)				
Setting resolution	1mA				
Display					
Voltmeter	5 digits LCD display				
Ammeter	5 digits LCD display				
Reading resolution	1mV/1mA				
Reading accuracy	Voltage: ±(0.02% of reading +5mV) (25±5°C) Current: ±(0.3% of reading +10mA) (25±5°C)				
Protection	Over load, over voltage, over current, over temperature and reverse polarity protections				
Remote sense function	Maximum compensation voltage 0.1V				
Battery charge	Lithium battery curve charge				
Programming 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: ≥20MΩ/500VDC Between base and AC power cord: ≥20MΩ/500VDC				
Operation environment	Indoor use Relative humidity: ≤80%	Altitude: ≤2000m Safety: grade II	Ambient temperature: 0~40°C Pollution degree: 2		
Storage environment	Ambient temperature: -10~70°C		Relative humidity: ≤70%		
Power source	AC220V±10%, 50/60Hz, or at request				
Accessories	Power cord x1, Operation manual x1, RS232 cable x1, Software CD x1				
Dimension	215Wx89Hx352D mm				
Weight	4.5kg				

**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

# Programmable Switching DC Power Supply



## Specifications (900W)

Model	PPW-1560	PPW-2045	PPW-3030	PPW-6015	PPW-8011
Rated output (0℃~40℃)					
Voltage	0~15V	0~20V	0~30V	0~60V	0~80V
Current	0~60A	0~45A	0~30A	0~15A	0~11A
OVP	0.1~18V	0.1~23V	0.1~34V	0.1~64V	0.1~88V
OCP	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	2mVrms, 30mVpp (20Hz~20MHz)				
Recovery time	≤1.5ms (50% load change)				
Temperature coefficient	≤300ppm/℃				
Setting accuracy	±(0.03% of reading + 10mV) (25±5℃)				
Setting resolution	1mV				
Constant Current Operation					
Line regulation	≤0.2%+3mA				
Load regulation	≤0.2%+5mA				
Ripple & Noise	≤10mArms				
Setting accuracy	±(0.3% of reading + 10mA) (25±5℃)				
Setting resolution	1mA				
Display					
Voltmeter	5 digits LCD display				
Ammeter	5 digits LCD display				
Reading resolution	1mV/1mA				
Reading accuracy	Voltage: ±(0.02% of reading +5mV) (25±5℃) Current: ±(0.3% of reading +10mA) (25±5℃)				
Protection	Over load, over voltage, over current, over temperature and reverse polarity protections				
Remote sense function	Maximum compensation voltage 0.1V				
Battery charge	Lithium battery curve charge				
Programming 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: ≥20MΩ/500VDC Between base and AC power cord: ≥20MΩ/500VDC				
Operation environment	Indoor use Relative humidity: ≤80%	Altitude: ≤2000m Safety: grade II	Ambient temperature: 0~40℃ Pollution degree: 2		
Storage environment	Ambient temperature: -10~70℃		Relative humidity: ≤70%		
Power source	AC220V±10%, 50/60Hz				
Accessories	Power cord x1, Operation manual x1, RS-232 cable x1, Software CD x1				
Dimension	215Wx89Hx412D mm				
Weight	5.5kg				

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