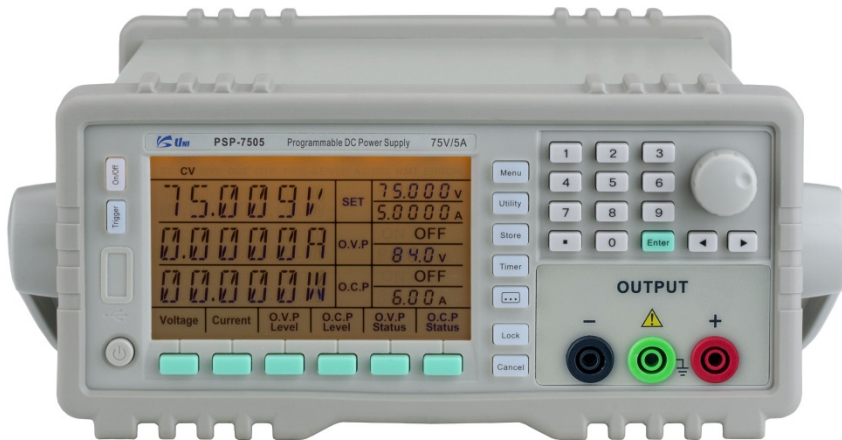


# PROGRAMMABLE 180W~375W DC POWER SUPPLY

*180W to 375W PSP series are high precision programmable DC power supplies features low regulation 0.01%, low ripple and noise with 1mVrms, automatic continuous or dynamic load change, battery charge function, MPU control, RS-232/RS-485/USB interface, etc.*

*The commands of the PSP 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 makes input to be fast and accurate. Voltage and current regulations by software avoids human error and makes the PSP series to be more accurate.*



MODEL	VOLTAGE	CURRENT
PSP-3605	36V	5A
PSP-6005	60V	5A
PSP-3010	30V	10A
PSP-7505	75V	5A
PSP-1820	18V	20A

## Features

- 0.01% low regulation, high accuracy and 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
- Automatic continuous or dynamic load change
- 1mVrms low ripple & noise
- 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
- RS-232 to USB cable provided
- Optional RS-485 interface, support Modbus

**Test Equipment Depot**  
  
 1-800-517-8431

99 Washington Street  
 Melrose, MA 02176  
 Phone 781-665-1400  
 Toll Free 1-800-517-8431



# Technical Specification

Model	PSP-3605	PSP-6005	PSP-3010	PPM-7505	PSP-1820
<b>Rated output (0°C~40°C)</b>					
Output	0~36V	0~60V	0~30V	0~75V	0~18V
Output	0~5A	0~5A	0~10A	0~5A	0~20A
O.V.P	0.1~40V	0.1~64V	0.1~34V	0.1~80V	0.1~21V
O.C.P	0.1~5.5A	0.1~5.5A	0.1~11A	0.1~5.5A	0.1~22A
<b>Constant Voltage Operation</b>					
Line regulation	≤0.01%+3mV				
Load regulation	≤0.01%+3mV (I≤3A); ≤0.02%+5mV (I>3A)				
Ripple & Noise (5Hz~1MHz)	≤1mVrms (I≤3A); ≤2mVrms (I>3A); ≤3mVrms (V≥75V)				≤1mVrms
Recovery time	≤100us (50% load change, minimum load 0.5A)				
<b>Constant Current Operation</b>					
Line regulation	≤0.2%+3mA				
Load regulation	≤0.2%+3mA (I≤3A); ≤0.2%+5mA (I>3A)				
Ripple & Noise	≤3mArms (I≤3A), ≤6mArms (I>3A)				≤5mArms
<b>Display</b>					
Voltmeter	5 digits LCD display				
Ammeter	5 digits LCD display				
Setting resolution	1mV/0.1mA	1mV/0.1mA	1mV/1mA	2mV/0.1mA	1mV/1mA
Reading resolution	Voltage	1mV	1mV	1mV	1mV
	Current	0.1mA	0.1mA	1mA	0.1mA
Setting accuracy (25±5°C)	Voltage	±(0.03% of reading + 10mV)			
	Current	±(0.2% of reading + 10mA) ±(0.2% of reading + 20mA) : PSP-1820			
Reading accuracy (25±5°C)	Voltage	±(0.02% of reading + 5mV)			
	Current	±(0.05% of reading + 5mA) ±(0.05% of reading + 10mA) : PSP-1820			
<b>General</b>					
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				

# Technical Specification

Model	PSP-3605	PSP-6005	PSP-3010	PPM-7505	PSP-1820
<b>General</b>					
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				
	RS232 to USB cable				
	Optional RS485 interface, support ModBus				
	Optional 0-5V analog control				
Memory	100 sets				
Insulation	Between base and terminals: $\geq 20M\Omega/500VDC$				
	Between base and AC power cord: $\geq 30M\Omega/500VDC$				
Operating environment	Indoor use	Altitude: $\leq 2000m$		Ambient temperature: $0\sim 40^{\circ}C$	
	Relative humidity: $\leq 80\%$		Installation category: II		Pollution degree: 2
Storage environment	$-10^{\circ}C\sim 70^{\circ}C$ , $\leq 70\%RH$				
Power source	AC110V/220V $\pm 10\%$ selectable, 50/60Hz				
Accessories	Power cord x1, Operation manual x1, RS232 cable x1, Software CD x1, Test lead x1				
Dimension (WxHxD)	215x89x352mm				
Weight	8kg	8kg	8.5kg	8.5kg	9.8kg

