

INTRODUCTION

The new **Metravi PRPS A Series** feature small body with a high resolution of 10 mV/1 mA. The large 2.8 inch LCD displays Constant Voltage output, Constant Current output, cumulative running time, actual Output Power, Channel Output status, actual Voltage Output and actual Current Output, simultaneously.

The stable output, low ripple and low noise, enable high-precision test requirements. The intelligent, temperature-controlled fan cooling reduces noise interference, enabling long-term stable output.

These instruments offer multiple settings to protect your meter and over voltage and over current values are user-settable.

The Constant Voltage (CV) & Constant Current (CC) intelligent switching modes effectively protect the circuit. When the actual current exceeds the preset current value, the power supply automatically switches to the CC mode to protect the circuit.

These models feature constant power design and a wide application range, providing flexible configurations of higher voltage and current within the rated power range.

The output voltage and current change function, makes them suitable for:

- Phone and laptop repairing
- PCB aging tests
- Battery charging
- Discharging experiments
- and many more applications

FEATURES

- Small body for easy portability
- High resolution: 10mV / 1mA
- List waveform editing output, editable 10 groups of timing output function
- Low ripple and noise
- Over Voltage / Over Current protection
- Output Voltage and Current curve monitoring function
- Intelligent temperature control fan cooling
- 2.8-inch TFT LCD multiple display
- USB communication interface
- Supports SCPI



Over Temperature Protection



High Precision



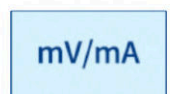
Automatic Cooling



Stable Output



LCD Display



High Resolution at 10mV/1mA

*Technical Specifications & Appearance are subject to change without prior notice

TECHNICAL SPECIFICATIONS

The instrument must be operated continuously for more than 30 minutes at the specified operating temperature to achieve the following specifications :

Model	PRPS-3005A	PRPS-6005A	PRPS-3010A	PRPS-6010A
Input Characteristics:				
Supply Voltage	110Vac±15% or 220Vac±15%, please supply power according to the mark on the left of the power input socket on the rear panel of the instrument			
Input Frequency	45~65Hz			
Input Parameter 1 (110Vac±15%):				
Input Voltage Range	93~127Vac			
Full Load Input Current	≤2.8A		≤5.6A	
No-Load Input Current	≤200mA	≤300mA		
Input Fuse	250V, F5A		250V, F10A	
Input Parameter 2 (220VAC±15%):				
Input Voltage Range	187~253Vac			
Full Load Input Current	≤1.4A		≤2.8A	
No-Load Input Current	≤100mA	≤150mA		
Input Fuse	250V, F3A		250V, F5A	
Rated Output:				
Voltage	0~30V	0~60V	0~30V	0~60V
Current	0~5A		0~10A	
Power	150W	200W	300W	
Efficiency (110VAC, Rated Load)	80%			
Efficiency (220VAC, Rated Load)	85%			
Regulation (CV):				
Load	≤30mV			
Line	≤20mV			
Regulation (CC):				
Load	≤30mA			
Line	≤20mA			

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Model	PRPS-3005A	PRPS-6005A	PRPS-3010A	PRPS-6010A
Ripple & Noise (Noise bandwidth 20MHz, ripple bandwidth 1MHz, connect 10uF electrolytic capacitor in parallel with 0.1uF ceramic capacitor to the output terminal for testing:				
Voltage (Vp-p)	≤30mV	≤50mV	≤30mV	≤50mV
Voltage (RMS)	≤3mV	≤5mV	≤3mV	≤5mV
Current (Ap-p)	≤30mA			
Setting Resolution:				
Voltage	10mV			
Current	1mA			
Readback Resolution:				
Voltage	10mV			
Current	1mA			
Setting Accuracy:				
Voltage	≤0.1%±20mV	≤0.1%±30mV	≤0.1%±20mV	≤0.1%±30mV
Current	≤0.1%±10mA			
Readback Accuracy:				
Voltage	≤0.1%±20mV	≤0.1%±30mV	≤0.1%±20mV	≤0.1%±30mV
Current	≤0.1%±10mA			
Response Time				
Transient recovery time (50%~100% rated load)	≤1 ms			
Protective Function:				
OVP	0~31V	0~61V	0~31V	0~61V
OCP	0~5.1A	0~10.1A		
OTP	85°C			
Temperature Coefficient Of Output:				
Voltage	100ppm/°C			
Current	200ppm/°C			
Temperature Coefficient Of Readback Value:				
Voltage	100ppm/°C			
Current	200ppm/°C			

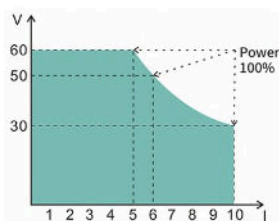
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Model	PRPS-3005A	PRPS-6005A	PRPS-3010A	PRPS-6010A
Display:				
Display Type	2.8 Inches Colour LCD			
Resolution	240 x 320 Pixels			
Colour	65536 Colour TFT			
Environment:				
Temperature	Working Temperature : 0°C~40°C Storing Temperature : -20°C~60°C			
Relative Humidity	≤90%RH; No condensation			
Height	2000 Meters			
Cooling	Fan cooling, temperature intelligent speed control			
Other:				
Communication Port	USB communication, compatible with SCPI communication protocol			
USB Charging Port	5V/1A Charging			
Dimension	82mm (Width) × 142mm (Height) × 226mm (Length)			
Weight	Approx. 1.5 kg			

Multiple functions to meet your different testing needs

Constant power design, wide application range, provides flexible configuration of higher voltage and current within the rated power range. One device is equal to multiple.



Schematic diagram of power supply constant power (take PRPS-6005A for instance)

Output voltage/current change curve monitoring function, suitable for repair of phones and laptops, PCB aging test, battery charging and discharging experiment, etc.



List waveform editing output, editable 10 groups of timing output.

ON	CV	T	00:00:31	06.80w	
U	I	T	Y/N		
6	05.00v	01.600A	00:00:10		
7	04.00v	01.400A	00:00:10		
8	03.00v	01.200A	00:00:10		
9	03.00v	01.100A	00:00:10		
Set		Limit			
60.00 v 10.065 A		60.00 v 10.200 A			

4 groups of memory shortcut parameters for quick output.

ON	CV	T	00:00:16	06.80w	
M1	U	I	OVP	OC	
M1	05.12v	05.000A	32.00v	10.200A	
M2	14.97v	04.960A	16.00v	05.100A	
M3	07.00v	02.000A	08.00v	02.500A	
M4	15.00v	02.000A	32.00v	03.400A	
Set		Limit			
60.00 v 10.065 A		60.00 v 10.200 A			



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