



INTRODUCTION

The Metravi PRPS 10kW series of digital push button, Programmable DC Regulated Power Supply are high performance DC power supplies controlled by microprocessors. The devices have high fidelity, high accuracy, high stability and other excellent electronic characteristics.

They are a reliable choice for research institutes and laboratories as adjustable DC power supplies or for production lines as product life test power supply.

The series is designed with perfect over-voltage and over-temperature protection circuit, and the reliability of the products is higher.

FEATURES

- Rated voltage : 100V/200V/300V/400V/500V/600V/750V/1000V
- Full 5-digit display for Voltage and full 4-digit display for Current
- Low ripple and low noise
- Minimum resolution of 1mV and 1mA, more accurate power output
- Excellent dynamic response time of <10ms
- High display accuracy and high programming accuracy
- No overshoot during startup, can set the rising slope of voltage and current
- Real-time power display
- Standard interface : RS232 & RS485

APPLICATIONS

- Testing and aging of LED, energy saving lamps
- Switching Power Supply, Power adapter
- Photovoltaic and inverter test aging
- Aerospace, national defense and industry
- Electric vehicle motor, controller, DC motor test and aging
- Capacitor, resistor, relay, transistors, sensors and other electronic devices
- LCD, touch screen and other displays such electrolysis, electroplating
- Corrosion aluminum foil processing, etc
- Automobile electronics, DC motor, motor controller, cigarette lighter, audio-visual test aging, etc

MODELS

Model	Voltage	Current	Power	Voltage Ripple
PRPS-100100	0-100.00V	0-100.0A	10KW	Vrms < 0.3%
PRPS-20050	0-200.00V	0-50.00A	10KW	Vrms < 0.3%
PRPS-30030	0-300.00V	0-30.00A	9KW	Vrms < 0.3%
PRPS-40025	0-400.00V	0-25.00A	10KW	Vrms < 0.3%
PRPS-50020	0-500.00V	0-20.00A	10KW	Vrms < 0.3%
PRPS-60015	0-600.00V	0-15.00A	9KW	Vrms < 0.3%
PRPS-75013	0-750.00V	0-13.00A	9750W	Vrms < 0.3%
PRPS-100010	0-1000.0V	0-10.00A	10KW	Vrms < 0.3%



TECHNICAL SPECIFICATIONS

Specification	Details
AC:Supply	
-Voltage	Three-phase: 380VAC±10%
-Frequency	50-60HZ
-Power Factor	> 0.92
DC Voltage	
- Accuracy	< Rating* 0.2% (CV mode)
- Load regulation 0-100%	< Rating*0.05%
- Line regulation ±10%	< Rating*0.05%
- Regulation 10-100%	< 10ms
- Rise time 10-90%	< 500ms-10s
- Overvoltage protection	
DC Current	
- Accuracy	< Rating*0.3% (CC mode)
- Load regulation 1-100%	< Rating*0.15%
- Line regulation ±10%	< Rating*0.05%
DC Power	
- Accuracy	< Rating*0.5%
Protection	Over Voltage Protection, Over Current Protection, Over Power , Over temperature Protection
Insulation	
- AC input to enclosure	1500VDC
- AC input to DC output	1500VDC
- DC output to enclosure	500VDC
(PE)	
Digital interfaces	RS232/RS485
Cooling	Air cooling
Operation temperature	-5°C - 45°C
Storage temperature	-20°C - 60°C
Humidity	< 80%, No condensation
Dimensions (WxHxD)	425*132*552mm
Weight	24 kgs