



Description

This KPS series of switching mode remote programming power supplies provide power test wave forms from the versatile 10 Step generator which can simulate common test conditions for electronic devices. In addition to the supplied USB communication interface, an optional Ethernet interface card allows users to configure, control, or monitor basic power supply settings over the internet. KPS uses SCPI (Standard Commands of Programmable Instruments) syntax for easy system integration with test equipment.

4-digits display provide 10mV and 10mA resolution.

Three user adjustable presets of voltage and current values can be saved for quick recall from the front panel buttons. User adjustable upper voltage and current limits make it extra safe for delicate and sensitive test piece.

Output On-Off button and the Key Lock button allow safe and convenient operation.

Analogue Remote Control of voltage, current and Output On-Off provide additional flexibility in the control of the power supply. It is ideal for laboratory, university, work shop, production, quality control and advanced DIY applications.

This family of KPS laboratory programmable power supplies has 5 series: 160W, 360W, 480W, 640W and 960W. All have 4 digit voltage and current LCD displays starting from min. 1V and zero Amp. Resolutions: 10mV and 10mA. Universal input for low power models.



Features

- Remote Programmable via USB or LAN(with optional LAN Card).
- On housing 10 Steps Waveform generator with cycle periods running.
- 4 digits Voltmeter and Ammeter.
- 3 user defined V & I panel presets for frequent use.
- User adjustable upper voltage and current limits.
- Output On-Off and Key Lock button.
- Standard Commands of Programmable Instruments (SCPI) command syntax.
- Analogue Remote Control of V, I & output On-Off without computer.
- Rotary encoder knob with definitive action of fine and coarse tuning.
- Smart cooling fan speed control from zero to full speed.
- Self diagnostic check on LED display and cooling fan on start up.
- Isolated ground , Active PFC & high power efficiency.
- Universal AC input.
- Over load, Tracking Over Voltage Protections.
- Constant Current limit setting with output open circuit.

Specifications

Models	KPS - 6400	KPS - 6402	KPS - 6404
Output			
Variable Output Voltage	1 - 16VDC	1 - 32VDC	1 - 60VDC
Variable Output Current	0 - 40A	0 - 20A	0 - 10A
Voltage Regulation			
Load (10 - 100% Rated Current)	≤50mV		
Line (180 - 264VAC Variation)	≤20mV		
Current Regulation			
Load (10 - 90% Rated Voltage)	≤150mA	≤100mA	≤100mA
Line (180 - 264VAC Variation)	≤50mA		
Ripple & Noise			
Ripple & Noise (r.m.s.) Voltage	≤5mV	≤5mV	≤5mV
Ripple & Noise (peak-peak) Voltage	≤50mV	≤50mV	≤100mV
Switching Frequency	65 - 85KHz~		
Tracking Over Voltage Protections	O/P ≤10V : set voltage +1V O/P >10V : set voltage x110%		
Meter Type & Accuracy			
Voltage Meter	4 Digit LED Display ±(0.2% +3counts)		
Current Meter	4 Digit LED Display ±(0.2% +3counts)		
Input Voltage	180 - 264VAC 50Hz~ (or on request)		
Full Load Input Current (230VAC/100VAC)	3.5A	3.5A	3.2A
Efficiency (230VAC)	≥84%	≥85%	≥87%
Power Factor Control	>95		
Cooling Method	Thermostatic Control Fan from Zero to full speed		
Protections	Overload, Short Circuit by Constant Current, Output Tracking Over Voltage, Over Temperature		
Special Features	3 User defined V & I preset, Analogue Remote control V, I and output on-off		
Preset Cycle Programming	10 steps waveform generator Max. preset cycle 999		
Approvals	CE EMC: EN 55011, 55022 LVD: EN 60950, 61010		
Dimensions (WxHxD)	200x90x292 mm 7.9x3.5x11.5 inch		
Weight	3.0 kg 6.6 lbs		

■ All values are based on the Standard ambient Temperature 25°C and Pressure 0.1Mpa.

■ SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE