

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.

4digits 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 4digit 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.
- 4digits 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.

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

* SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

General Specifications

Voltage Meter Type & Accuracy	4digit LED display $\pm(0.2\% +3\text{counts})$
Current Meter Type & Accuracy	4digit LED display $\pm(0.2\% +3\text{counts})$
Input Voltage	90-264VAC 50/60Hz~ (KPS-61XX, 62XX) 180-264VAC 50Hz~ (KPS-63XX, 64XX, 66XX)
Power Factory Control	>95
Cooling Method	Thermostatic Control Fan from Zero to full speed
Protection	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, Remote Sensing (only for KPS-6600)
Preset Cycle Programming	10 steps waveform generator Max. preset cycle 999
Approvals	CE EMC: EN 55011, 55022 LVD: EN 60950, 61010
Dimension (WxHxD)	200x90x247 mm 7.9x3.5x9.7 inch (KPS-61XX, 62XX) 200x90x292 mm 7.9x3.5x11.5 inch (KPS-63XX, 64XX) 200x90x332 mm 7.9x3.5x13 inch (KPS-66XX)
Weight	2.4 kg 5.2 lbs (KPS-61XX, 62XX) 3.0 kg 6.0 lbs (KPS-63XX, 64XX) 3.8 kg 8.4 lbs (KPS-66XX)

Specifications

Models	KPS-6100	KPS-6102	KPS-6104
Output			
Variable Output Voltage	1-18VDC	1-36VDC	1-60VDC
Variable Output Current	0-10A	0-5A	0-2.5A
Voltage Regulation			
Load (10-100% Rated Current)	$\leq 50\text{mV}$		
Line (90-264VAC Variation)	$\leq 20\text{mV}$		
Current Regulation			
Load (10-90% Rated Voltage)	$\leq 100\text{mA}$		
Line (90-264VAC Variation)	$\leq 50\text{mA}$		
Ripple & Noise			
Ripple & Noise (r.m.s.) Voltage	$\leq 5\text{mV}$		
Ripple & Noise (peak-peak) Voltage	$\leq 50\text{mV}$		
Switching Frequency	100-120KHz~		
Tracking Over Voltage Protection	O/P $\leq 10\text{V}$: set voltage +1V O/P $> 10\text{V}$: set voltage x110%		
Full Load Input Current (230VAC)	1.1A	1.1A	0.95A
Efficiency (230VAC)	$\geq 82\%$		

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Specifications

Models	HS-6200	KPS-6202	KPS-6204
Output			
Variable Output Voltage	1-18VDC	1-36VDC	1-60VDC
Variable Output Current	0-20A	0-10A	0-5A
Voltage Regulation			
Load (10-100% Rated Current)	≤50mV		
Line (90-264VAC Variation)	≤20mV		
Current Regulation			
Load (10-90% Rated Voltage)	≤100mA		
Line (90-264VAC Variation)	≤50mA		
Ripple & Noise			
Ripple & Noise (r.m.s.) Voltage	≤5mV		
Ripple & Noise (peak-peak) Voltage	≤50mV	≤50mV	≤100mV
Switching Frequency	100-120KHz~		
Tracking Over Voltage Protection	O/P ≤10V: set voltage +1V O/P >10V: set voltage x110%		
Full Load Input Current (230VAC)	2.2A	2.2A	1.8A
Efficiency (230VAC)	≥83%	≥84%	≥85%

Models	KPS-6300	KPS-6302	KPS-6304
Output			
Variable Output Voltage	1-16VDC	1-32VDC	1-60VDC
Variable Output Current	0-30A	0-15A	0-8A
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	≤10mV
Ripple & Noise (peak-peak) Voltage	≤50mV	≤50mV	≤100mV
Switching Frequency	100-120KHz~		
Tracking Over Voltage Protection	O/P ≤10V: set voltage +1V O/P >10V: set voltage x110%		
Full Load Input Current (230VAC)	2.6A		
Efficiency	≥84%	≥85%	≥85%

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	≤10mV
Ripple & Noise (peak-peak) Voltage	≤50mV	≤50mV	≤100mV
Switching Frequency	65-85KHz~		
Tracking Over Voltage Protection	O/P ≤10V: set voltage +1V O/P >10V: set voltage x110%		
Full Load Input Current (230VAC)	3.5A	3.5A	3.2A
Efficiency	≥84%	≥85%	≥87%

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Models	KPS-6600	KPS-6602	KPS-6604
Output			
Variable Output Voltage	1-16VDC	1-32VDC	1-60VDC
Variable Output Current	0-60A	0-30A	0-15A
Voltage Regulation			
Load (10-100% Rated Current)	≤50mV		
Line (180-264VAC Variation)	≤20mV		
Current Regulation			
Load (10-90% Rated Voltage)	≤200mA	≤150mA	≤100mA
Line (180-264VAC Variation)	≤50mA		
Ripple & Noise			
Ripple & Noise (r.m.s.) Voltage	≤5mV	≤5mV	≤10mV
Ripple & Noise (peak-peak) Voltage	≤50mV	≤50mV	≤100mV
Switching Frequency	65-85KHz~		
Tracking Over Voltage Protection	O/P ≤10V: set voltage +1V O/P >10V: set voltage x110%		
Full Load Input Current (230VAC)	5.0A	4.9A	4.5A
Efficiency	≥86.5%	≥89%	≥87%

Accessories



AC Power Cord



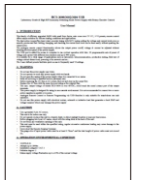
Output cable
with right angle safety plug
and crocodile clip



USB Cable



CDROM
include user manual,
USB driver and
PC control software



User Manual

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