LPS-100

https://www.gigahertz-optik.com/en-us/product/lps-100/

Product tags:

Description

LPS-100 single channel 100W/14V lamp power supply

The LPS-100 is a microprocessor-based power supply for the operation of lamps up to 100 W and 13.5 V requiring high resolution controllable with very low noise operating current such as calibration standard lamps and auxiliary lamps. It is set-up for full remote control operation in CW mode by its RS232 or RS485 interface. Its design includes a high resolution 16 bit digital to analog converter for precise current control. For lamp filament protection it offers a time adjustable on/off ramp function. DLL and Labview VI are available.

LPS-100-RM

Specifications
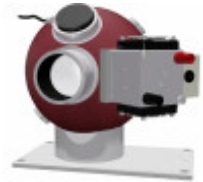
General

Short description	Precise frequency modulated controler for constant current operation of tungsten halogen lamps and LEDs in remote control operation. Low ripple signal.
Main features	16 bit DAC current control. Time set able on/off ramp. RS232 or RS485 Interface. Software development kit. Housing for 19 Inch rack Installation.
Measurement range	max. 13.5 V, 0 to 10 A (0.2 mA resolution) , max. 100 W.
Typical applications	Power supply for calibration lamps and lamps for integrating sphere sources.
Calibration	current calibration

Product

Power Supply	(18 - 24) VDC
DC input connector	Phoenix MSTB25/2GF (5.00)
Output power	100 W
	0 - 10 A
	max. 13.5 V
Output Interfaces	Phoenix MSTB25/4GF (5.00)
Resolution of output current	0.2 mA
Temperature range	± 0.3 mA/°K
Stability	± 1 mA (for 8 hours, 60 minutes after switch on output current by constant environment)
Software	Tthe S-SDK-LPS allows all settings of the LPS-100 like for instance the current value or ramp time to be controlled. Furthermore voltage and current can be measured.

Display	LEDs: green: blinking slow: DC input voltage present blinking fast: Current ramp active continuous: output switched on red: continuous: error
Interface	RS232 / RS485: 19200 Bd, 8D, 1S, N
Control Input	(4 – 30) VDC, input resistance 20 kOhm, opto coupler isolated
Miscellaneous	
Temperature range	operation: (10 - 30) °C (with free air flow) storage: (5 - 50) °C
Dimensions	105 mm x 80 mm x 45 mm
Weight	500 g
Warranty	12 month

Configurable with

Product Name	Product Image	Description	Go to product
S-SDK-LPS		Software Development Kit for LPS variants (power supply) for own software implementation.	https://www.gigahertz-optik.com/en-us/product/s-sdk-lps/
BTH-19		Bench-top and rack housing for 3HE rack modules. Features: The bench-top housings are available in half, third or full 19" widths. Power supply modules for (110-230) V, 50/60 Hz with low DC voltages for both external devices and those within the housing.	https://www.gigahertz-optik.com/en-us/product/bth-19/
LS-IS1.5		Light source for use with the UM series modular construction integrating spheres	https://www.gigahertz-optik.com/en-us/product/ls-is1.5/
LS-OK30		Light source for use with the UM series modular construction integrating spheres	https://www.gigahertz-optik.com/en-us/product/ls-ok30/

Product Name	Product Image	Description	Go to product
LS-OS1.0		Light source for use with the UM series modular construction integrating spheres	https://www.gigahertz-optik.com/en-us/product/ls-os1.0/
SC-05		System control for versatile light measurement applications	https://www.gigahertz-optik.com/en-us/product/sc-05/
ISS-5P		Integrating Sphere Source for Spectral Radiance	https://www.gigahertz-optik.com/en-us/product/iss-5p/
CLS-21		Collimator Light Source for Integrating Spheres	https://www.gigahertz-optik.com/en-us/product/cls-21/
BN-LHSF-AP-100		Calibration standard lamp for 4π spectral flux, total flux and CCT	https://www.gigahertz-optik.com/en-us/product/bn-lhsf-ap-100/

Purchasing information

Article-Nr	Modell	Description
Product		
101453	LPS-100-RM	Power supply module. Rack-mount housing.
101468	LPS-100-BT	Power supply module. Bench-top housing.
Software		
15298224	S-SDK-LPS	Software Development Kit for the implementation of a LPS or variants into custom made software

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