

LPS-250

<https://www.gigahertz-optik.com/en-us/product/lps-250/>

Product tags:



Description

LPS-250 Single channel 250W, 24V Lamp Power Supply

The LPS-250 is a microprocessor-based power supply for the operation of lamps up to 250W 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 via its RS232/RS485 interface. Its design includes a high resolution 16 bit digital to analogue converter for precise current control. For lamp filament protection it offers a time adjustable on/off ramp function. The LPS-250 can be manually controlled with its front panel buttons with active display. Combined with the BTH19/2 bench top housing a stand alone power supply to operate the BN-LH250 spectral irradiance calibration standard lamp can be set-up.



LPS-250 front panel



LPS-250 rear panel

Specifications

General





Short description	Precise frequency modulated power supply for constant current operation of tungsten halogen or other lamps in remote control operation. Low ripple signal.
Main features	16 bit DAC current control. Time set able on/off ramp. RS232 or RS485 Interface. Display and buttons for Manual operation. Housing for 19 Inch rack installation. Software development kit.
Measurement range	-
Typical applications	Precision lamp power supply for calibration lamps up to 250 W.
Calibration	Current factory calibration




Product

Output power	LPS-250: AC-supply (160 - 240) VAC: 270 W / (0 - 15) A / max. 26 V AC-supply 85 VAC: 150 W / (0 - 15) A / max. 26 V LPS-250A: AC-supply (100 - 240) VAC: 270 W / (0 - 15) A / max. 26 V AC-supply 85 VAC: 220 W / (0 - 15) A / max. 26 V
Output Interfaces	banana plug 4 mm
Resolution of output current	0.3 mA
Temperature range	$\pm 0.3 \text{ mA}/^\circ\text{K}$
Stability	$\pm 1 \text{ mA}$ (60 minutes after switch on output current constant for 8 hours by constant environment)

Display	LCD-Grafic display 97x32 pixel: Size: 14.3 mm x 35.8 mm LED backlight: switch on/off Text display: 4 lines each 14 chars
Key pad	3 keys: enter/menu down up/light on/off
Control Input	(4 – 30) VDC, input resistance 20 kOhm, opto coupler isolated, plug 2.1 mm/5.0 mm
Power Supply	(85 - 240) VAC (50 – 60) Hz (output power derating!)
Inrush current	22A (115VAC), 40A (230VAC)
Miscellaneous	
Interface	Standard: RS232 Optional: RS485
Safety class	1
Temperature range	Operation: (10 to 35) °C (with free air flow) Storage: (-10 to 50) °C
Weight	3 kg

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/
SC-05		System control for versatile light measurement applications	https://www.gigahertz-optik.com/en-us/product/sc-05/
BN-LH250		Calibration Lamp for Spectral Irradiance and Illuminance	https://www.gigahertz-optik.com/en-us/product/bn-lh250/

Product Name	Product Image	Description	Go to product
BN-LHSF-2P-20		Calibration standard lamp for 2π spectral flux, total flux and CCT	https://www.gigahertz-optik.com/en-us/product/bn-lhsf-2p-20/
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		
101092	LPS-250	Power supply module for 115 to 230VAC. Rack-mount housing
15296949	LPS-250A	Power supply module for 90VAC main voltage. Rack-mount housing
Software		
15298224	S-SDK-LPS	Software Development Kit for the implementation of a LPS or variants into custom made software
Accessories		
101136	BTH-19/2	Bench top housing for LPS-250 module. 1/2 19" width

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