

LPS-27-RM

<https://www.gigahertz-optik.com/en-us/product/lps-27/>

Product tags:



Description

LPS-27-RM Six Channel 1500mA/18V LED Rack Mount Power Supply

The LPS-27 is a microprocessor-based current and voltage source especially designed for the operation of LEDs, OLEDs and other light sources requiring high resolution, very low noise operating voltage and current that is controllable and measurable. It offers six channels which can be controlled. It is set-up for full remote control operation in CW or Flash mode via its RS232 interface. DLL and Labview VI's are available as an option. Its design includes high resolution 16 bit digital to analogue converters for precise current and voltage control. It can be operated either in constant voltage or constant current mode. The variable (current or voltage) can be measured with a high resolution ADC. To avoid unintentional power loss at the linear control element its input voltage is set by a DC/DC converter to the optimum voltage needed. Beside the CW mode the power supply supports PWM operation of the LEDs at the set current.



LPS-27

LPS-27-6-RM:

max. 1500 mA

min. 50 mA





6 channels

Specifications

General	
Short description	Six-channel controller for the frequency modulated operation of LEDs in remote control.
Main features	Six-channels. Wide dynamic current range by the combination of linear and frequency Modulation control. RS232 or RS485 Interface.
Measurement range	NULL
Typical applications	NULL
Calibration	NULL
Product	
Power Supply	(7 - 24) VDC; Phoenix MSTB25/2GF (5.00)
Output current	(0.05 - 0.5) A
	(0.05 - 1.5) A with cooling
Output Voltage	(2.5 - 13.5) VDC; Phoenix MCDN1.5/6
Switching frequency	typ. 600 kHz
PWM range	0.0 to 1.0
	min. on time ≥ 1µs
PWM resolution	≥ 25 ns
Display	LEDs:
	green:
	blinking: DC input voltage present continuous: output switched on
	red:
	continuous: error

PWM range	0.0 - 1.0 (minimum on time $\geq 1 \mu\text{s}$)
PWM resolution	$\geq 25 \text{ ns}$
Miscellaneous	
Interface	RS232: 19200 Bd, 8D, 1S, N optocoupler isolated
Temperature range	operation: 10 °C - 30 °C (with free air flow) storage: 5 °C - 50 °C
Dimensions	105 mm x 126 mm x 45 mm (3HE, 9TE)
Weight	350 g
Warranty	12 month

Configurable with

Product Name	Product Image	Description	Go to product
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/
LS-OS1.5-LED3		Light source for use with the UM series modular construction integrating spheres. Features: External lamp for up to seven LEDs of type Golden Dragon Osram. LEDs connected in line or in 3 groups. Fan for the heat sink.	https://www.gigahertz-optik.com/en-us/product/ls-os1.5-led3/
LS-OS1.5-LED1		Light source for use with the UM series modular construction integrating spheres. Features: External lamp for up to 24x LEDs of type Golden Dragon Osram. LEDs connected in line or in 3 groups. Fan for the heat sink.	https://www.gigahertz-optik.com/en-us/product/ls-os1.5-led1/

Purchasing information

Article-Nr	Modell	Description
Product		

Article-Nr	Modell	Description
15298175	LPS-27-6-RM	Six channel LED current source for up to 6 LEDs with set able operation current with max 1500mA and 18V. PWM intensity control. Operation voltage of 24V / 10A must be supplied. Isolated RS232 interface. Rack-mount front plate (3HE, 8TE).

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