
LASER DIODE MODULE POWER SUPPLY «LDMPS-6-9»

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PURPOSE

The Power Supply provides pulsed performance of the Laser Diode Modules /1÷9 standard arrays/

TECHNICAL PARAMETERS

LDM

✓ Peak LDM current	400 A
✓ Max bias current	40 A
✓ Max LDM voltage	24 V
✓ LDM average power	≤ 500 W
✓ LDM working pulse length.....	40 ÷ 3000 μs
✓ Repetition rate	single shots ÷ 10 kHz
✓ Instability of the current amplitude	≤ 1 %
✓ Power supply of pilot laser	5 V & 200 mA

PELTIER ELEMENTS 1 & 2

✓ Range of the temperature control	15 ÷ 40 °C
✓ Discreteness of the temperature control	± 0,01 °C
✓ Max voltage	24 V
✓ Max current	8 A

ADDITIONAL TEMPERATURE INTERLOCK 12 ÷ 60 °C

PHOTO DETECTOR

✓ linear range of the LDM photocurrent measurements	0,01 ÷ 160 μA
✓ Scale factor of light power/current conversion	0 ÷ 100 W/μA

HIGH VOLTAGE SUPPLY FOR THE LASER Q-SWITCH

✓ Tuning range of HV	0 ÷ 4200 V
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TRIGGER DELAY

✓ Tuning range of trigger delay	0 ÷ 400 μs
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GENERAL

✓ Power supply 1 (for LDM current)	3 ÷ 24 VDC & 40 A
✓ Power supply 2 (for Peltier Element)	24 VDC & 16 A
✓ Dimensions	120 × 150 × 40 mm ³
✓ Weight	500 g
✓ Storage temperature	- 30 ÷ + 60 °C
✓ Operating temperature	+ 5 ÷ + 45 °C
✓ Ambient humidity	< 98%

The control of the Power Supply is provided by personal computer according to RS232 or USB standard with software VLC3 and VITRONC.

