



Diode-Pumped Pulsed Nd:YAG Laser

Model LDPP-100M

An innovative, diode-pumped Nd:YAG laser designed specifically for light-duty cutting and drilling applications that require up to 100 Watts average power. Another highly-reliable, industrial-grade Nd:YAG laser product from Lee Laser.

- Ultra-fast pulse rise- and fall-times for HAZ-free cutting and drilling applications
- 9,500-pps pulse rate for high production throughput
- Programmable microprocessor controller to select internal performance parameters
- Interface circuit for computer control of pulse energy, pulse width and pulse rate
- "CE Mark" Certified; this is a CDRH Class IV laser product

Wavelength	1064 nm
Transverse Mode	Multimode
Beam Diameter	< 2.5 mm
Beam Divergence (full angle) nominal	6 mr at 100 Watts
Polarization	Random

Performance

Average Power, maximum	>100 Watts
Pulse Rate, maximum	9500 pps
Pulse Energy, maximum	170 mJ
Pulse Width Range	1-200 μ s

Average Power (W) at Pulse Freq (kHz)	1.0	2.0	4.0	5.0	9.5
Pulse Width					
10- μ s					85
20 μ s	10	25	60	85	>100
30 μ s			95	100	
35 μ s	25	50			
40 μ s			>100	>100	
50 μ s	35	80	>100		
100 μ s	80	>100			
150 us	>85				

Mechanical

Optical Rail Length, (options dependent)	130 cm
Power Station Dimensions	77H x 60W x 85D cm (with water/water cooler)

Electrical Power

Recommended Service	220 \pm 10% VAC, 1-phase, 50/60 Hz, 30A
Maximum Consumption	4.2 kW

Water

City water cooled, 16 l/m @ 15° C max. Chiller requirement 3kW
 *Optional city-water cooled refrigerated chiller requires city water, 8 l/m @ 20° C max. temp
 * Optional Air-cooled refrigerated chiller

Environmental

Temperature, Operating	18 - 30°C
Temperature, Storage	5 - 60°C
Humidity	10 - 90%, non-condensing



Lee Laser follows a policy of continuous improvement.
 Specifications are subject to change without notice.

