



UV DIODE-PUMPED Nd:YAG LASER

MODEL LDP-100MQU

355 nm Wavelength

An innovative laser optics design, combined with an industrial-grade power supply, results in an extraordinarily reliable and rugged diode-pumped Nd:YAG laser for industrial use. A TOTALLY SOLID-STATE LASER for TROUBLE-FREE MANUFACTURING !

- Efficient diode optical pumping for improved performance and reliability
- Q-switched pulse stability < 5 % rms up to 15 kHz
- Efficient water/water heat exchanger cooling system (self-contained chiller optionally available)
- Uses Intracavity SHG and THG Assemblies with LBO harmonic generator crystals
- "CE Mark" Certified; this is a CDRH Class IV laser product

Wavelength	355 nm
Transverse Mode	Multimode
Beam Diameter, nominal	1.0 mm
Beam Divergence, nominal	2.5 mr
Polarization	Linear

Q-switched performance:

Frequency (kHz)	5	7.5	10*	20	30
Average Power (W)	8	11	12*	6	5
Pulse Energy (mJ)	1.6	1.5	1.2*	.3	.17
Pulse Width (ns), typical	105	125	160*	270	400
Peak Pulse Power (kW)	15.2	11.7	7.5*	1.1	.42

Mechanical

Optical Resonator Length	70 L x 20 W x 21 H cm
Power Station Dimensions (water\water cooler)	77 H x 60 W x 85 D cm

Electrical Power

Recommended Service Average Consumption	220 ± 10% VAC, 1-phase, 50/60 Hz, 20A 2 kW, maximum
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Cooling

City water cooled, 8 l/m @ 15° C max. temp. > 2.5 bar (35 psi) pressure.
Self-contained, refrigerated chiller optionally available. 1-kW heat vented into room. Max. ambient operating temperature 30° C.



* Laser is specified at 10 kHz; all other values are typical.

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





UV DIODE-PUMPED Nd:YAG LASER

MODEL LDP-100TQU

355 nm Wavelength

An innovative laser optics design, combined with an industrial-grade power supply, results in an extraordinarily reliable and rugged diode-pumped Nd:YAG laser for industrial use. A TOTALLY SOLID-STATE LASER for TROUBLE-FREE MANUFACTURING !

- Efficient diode optical pumping for improved performance and reliability
- High power UV output from small diameter, low divergence beam
- Q-switched pulse stability < 5 % rms up to 15 kHz
- Efficient water/water heat exchanger cooling system (self-contained chiller optionally available)
- Uses Intracavity SHG and THG Assemblies with LBO harmonic generator crystals
- "CE Mark" Certified; this is a CDRH Class IV laser product

Wavelength	355 nm
Transverse Mode	TEM ₀₀
Beam Diameter, nominal	0.6 mm
Beam Divergence, nominal	1.0 mr
Polarization	Linear

Q-switched performance:

Frequency (kHz)	5	7.5*	10	20	30
Average Power (W)	4.5	5.0*	4.5	3.0	1.5
Pulse Energy (mJ)	0.9	0.7*	0.48	0.15	0.05
Pulse Width (ns), typical	80	100*	110	170	200
Peak Pulse Power (kW)	11.3	6.7*	4.1	0.88	0.25

Mechanical

Optical Resonator Length	70 L x 20 W x 21 H cm
Power Station Dimensions (water\water cooler)	77 H x 60 W x 85 D cm

Electrical Power

Recommended Service	220 ± 10% VAC, 1-phase, 50/60 Hz, 20A
Average Consumption	2 kW, maximum

Cooling

City water cooled, 8 l/m @ 15° C max. temp. > 2.5 bar (35 psi) pressure.
Self-contained, refrigerated chiller optionally available. 1-kW heat vented into room. Max. ambient operating temperature 30° C.



* Laser is specified at 7.5 kHz; all other values are typical.

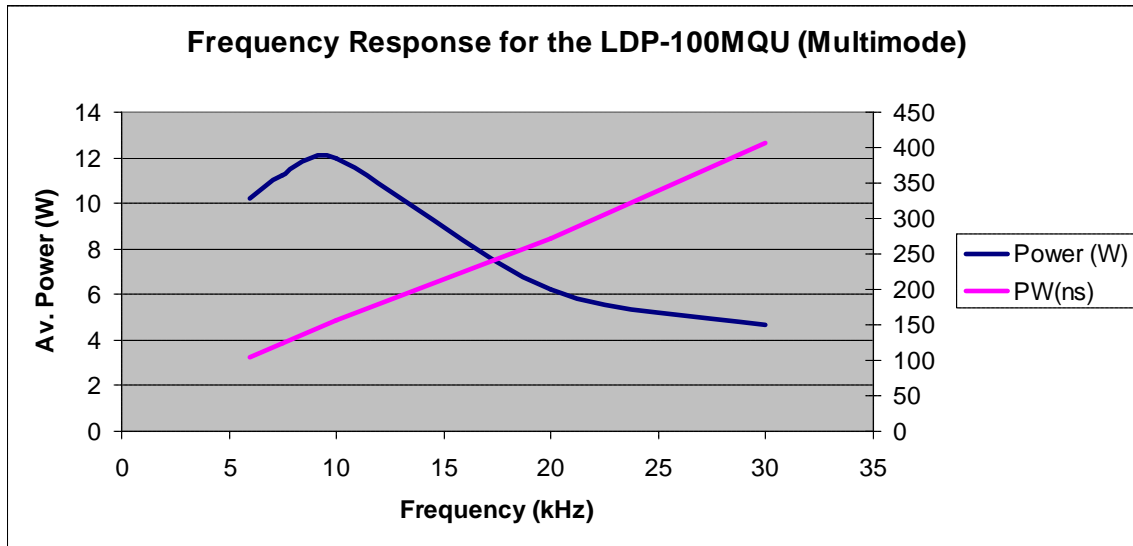
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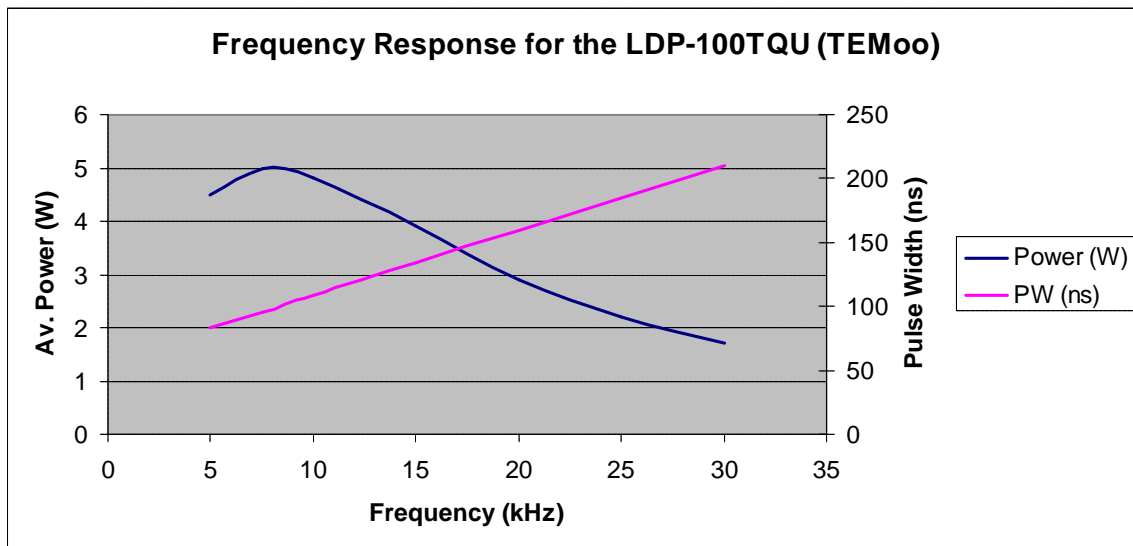


Performance Data for the LDP-100MQU & LDP-100TQU 355nm UV Lasers

LDP-100MQU



LDP-100TQU





SIMP **LEE** MORE PRACTICAL

TEM₀₀ & MULTIMODE IN ONE DPSS UV LASER

- Model LDP-100MQ/TQU: DPSS UV @ 355 nm
- Intra-cavity design; no raster scan of LBO crystal
- Temperature tuned THG for stable operation



- 5 Watts TEM₀₀ and 12 Watts multimode
- Open resonator design
- Wide pulse frequency operating range: 5 kHz - 30 kHz
- Compact size for ease of integration

DPSS End-Pumped



Pulsed Diode



High-Power 532 nm



MHR-800MQ



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ORLANDO, FLORIDA USA • PHONE: 407-812-4611 • EMAIL: SALESDEPT@LEELASER.COM