

Your source for high quality, affordable lasers

DATA SHEET

LD PUMPED ALL-SOLID-STATE UV LASER

All solid state 355nm UV laser is made features of ultra-compact, long lifetime, low cost and easy operating, which is widely used in UV curing, micro-electronics, CD carving, laser medical treatment, scientific experiment, etc.



Model: MPL-F-355 / 1~150mW

Output power (mW) 1-150mW Transverse mode Near TEMoo Operating mode Frequency conversion of Q-switched pulsed laser Single pulse energy (µJ) 0.1-15 Pulse duration (ns) -7 Peak Power (KW) -2 Rep. rate (kHz) Fixed rep. rate, such as 1k, 2k, 3k, 4k, 5kHz, with stable laser pulses emitting (stable pulse energy, peak, duration and period). Different rep. rate in the range of 1kHz-5kHz can be obtained by input an external TTL signal. Average power (mW) Undefined rep. rate among 4k-10kHz and unstable laser pulse emitting. Suitable for the applications only needing high peak power pulses. Average power stability (over 4 hours) <5%, <10% Warm-up time (minutes) <10 Beam diameter at the aperture (mm) <1.5 Beam diameter at the aperture (mm) <2.0 Polarization ratio <100:1 Pointing stability after warm-up (mrad) <0.05 Spectral purity >99% Beam height from base plate (mm) 45 Operating temperature (*C) 10-35 Power supply (90-264VAC) PSUH-FDA Expected lifetime (hours) 10,000 Warranty pe				
Near TEMoo	Wavelength (nm)		355 ± 1nm	
Operating mode Frequency conversion of Q-switched pulsed laser	Output power (mW)		1~150mW	
Single pulse energy (µJ) Pulse duration (ns) Peak Power (KW) -2 Fixed rep. rate, such as 1k, 2k, 3k, 4k, 5kHz, with stable laser pulses emitting (stable pulse energy, peak, duration and period). Different rep. rate in the range of 1kHz-5kHz can be obtained by input an external TTL signal. Uncontrollable Uncontrollable Uncontrollable Undefined rep. rate among 4k-10kHz and unstable laser pulse emitting. Suitable for the applications only needing high peak power pulses. Average power (mW) = Single pulse energy (µJ) * Rep. rate (kHz) Ave power stability (over 4 hours) Average power (mW) = Single pulse energy (µJ) * Rep. rate (kHz) Ave power stability (over 4 hours) 410 Beam diwergence, full angle (mrad) 41.5 Beam diameter at the aperture (mm) -2.0 Polarization ratio Pointing stability after warm-up (mrad) Co.05 Spectral purity >99% Beam height from base plate (mm) 45 Operating temperature (°C) 10-35 Power supply (90-264VAC) PSU-H-FDA Expected lifetime (hours) Please Note: because of the Walk-off effect of Nonlinear crystals, the	Transverse mode		Near TEM ₀₀	
Pulse duration (ns) Peak Power (KW) -2 Fixed rep. rate, such as 1k, 2k, 3k, 4k, 5kHz, with stable laser pulses emitting (stable pulse energy, peak, duration and period). Different rep. rate in the range of 1kHz-5kHz can be obtained by input an external TTL signal. Uncontrollable Uncontrollable Uncontrollable Undefined rep. rate among 4k-10kHz and unstable laser pulse emitting. Suitable for the applications only needing high peak power pulses. Average power (mW) Average power (mW) = Single pulse energy (μJ) * Rep. rate (kHz) Ave power stability (over 4 hours) 410 Eam divergence, full angle (mrad) Eam diameter at the aperture (mm) -2.0 Polarization ratio Polarization ratio 210:1 Pointing stability after warm-up (mrad) 599% Beam height from base plate (mm) 45 Operating temperature (C) 10-35 Power supply (90-264VAC) Expected lifetime (hours) Please Note: because of the Walk-off effect of Nonlinear crystals, the Pelase Note: because of the Walk-off effect of Nonlinear crystals, the	Operating mode		Frequency conversion of Q-switched pulsed laser	
Peak Power (KW) ~2 Fixed rep. rate, such as 1k, 2k, 3k, 4k, 5kHz, with stable laser pulses emitting (stable pulse energy, peak, duration and period). Different rep. rate in the range of 1kHz-5kHz can be obtained by input an external TTL signal. Uncontrollable Undefined rep. rate among 4k-10kHz and unstable laser pulse emitting. Suitable for the applications only needing high peak power pulses. Average power (mW) Average power (mW) = Single pulse energy (μJ) * Rep. rate (kHz) Average power (mW) = Single pulse energy (μJ) * Rep. rate (kHz) Average power (mW) = Single pulse energy (μJ) * Rep. rate (kHz) Average power (mW) = Single pulse energy (μJ) * Rep. rate (kHz) Average power (mW) = Single pulse energy (μJ) * Rep. rate (kHz) Average power (mW) = Single pulse energy (μJ) * Rep. rate (kHz) Average power (mW) = Single pulse energy (μJ) * Rep. rate (kHz) Average power (mW) = Single pulse energy (μJ) * Rep. rate (kHz) Average power (mW) = Single pulse energy (μJ) * Rep. rate (kHz) Average power (mW) = Single pulse energy (μJ) * Rep. rate (kHz) Average power (mW) = Single pulse energy (μJ) * Rep. rate (kHz) Average power (mW) = Single pulse (mrate)				

MxL-F-355	Dimensions	PSU-H-FDA	Dimensions
	211(L)×88(W) ×74(H) mm ³ , 2.0 kg	DPSSL DRIVER ON Pewer Laser Alaum OFF OFF	275 (L) ×145(W) ×104 (H) mm³, 2.3 kg

http://www.ultralasers.com Ultralasers, Inc. Tel: +1-647-800-0936; Fax: +1-647-340-7118 Email: sales@ultralasers.com