

~ 业光电视

Changchun New Industries Optoelectronics Tech, Co., Ltd,

DATA SHEET

MPL-H-1047/50~150uJ/1-300mW



SPECIFICATIONS

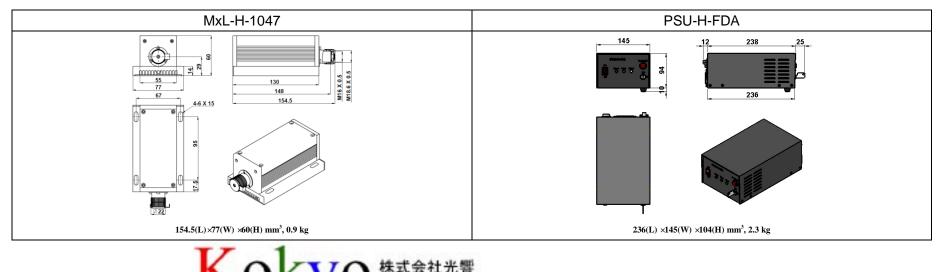
LD PUMPED ALL-SOLID-STATE **Q-SWITCHED LASER AT 1047 nm**

All solid state Q-switched laser at 1047 nm has the features of high peak power, high repetition rate, and short pulse duration, which is widely used in industry (marking on the diamond or stone), teaching of nonlinear optics, fiber communication, etc.



1047±1 Central wavelength (nm) Operating mode Q-switched pulsed laser 50~150 Single pulse energy (µJ) Pulse duration (ns) ~6 Peak power (W) 8400~25000 Setting up one fixed rep. rate internal between 0.1Hz-1kHz with stable pulse FIXED energy, pulse duration and pulse period. 0.1Hz-1kHz by external trigger with stable pulse energy, pulse duration and Rep. rate (kHz) EXT TRIG pulse period. **OCW** QCW state with one rep. rate between 2k-3kHz. Average power (mW) Average power (mW) = Single pulse energy (μ J) * Rep. rate (kHz) Ave power stability (over 4 hours) <1%, <3%, <5% Transverse mode TEM₀₀ Warm-up time (minutes) <10 M² factor <1.5 Beam divergence, full angle (mrad) <2.0 Beam diameter at $1/e^2$ (mm) ~3.0 Beam height from base plate (mm) 29 388 JinHu Road High-tech Zone Changchan, Chi 10~35 Operating temperature (°C) Power supply (90-264VAC) PSU-H-FDA Expected lifetime (hours) 10000 Warranty period 1 year





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