

PL11M SERIES



PL11M series picosecond mode-locked diode pumped laser offers 1 W output power at 1064 nm. It features high 1 MHz repetition rate, short 10 ps pulse duration and excellent beam quality ($M^2 < 1.5$).

Stable output parameters and rugged cost-effective design establishes PL11M series lasers as an excellent choice for various spectroscopy applications.

SPECIFICATIONS ¹⁾

Model	PL11M
Repetition rate	1 MHz
Average output power	
at 1064 nm	>0.8 W (typical 1 W)
at 532 nm	0.45 W
at 355 nm	0.25 W
Pulse duration	<10 ps
Pulse energy stability at 1064 nm	better than 2 % (StdDev)
Mode	TEM ₀₀
Beam quality	$M^2 < 1.5$
Sync out with respect to optical pulse jitter	<0.5 ns
Beam height	175 mm
Laser head dimensions (W × L × H)	456 × 820 × 240 mm

¹⁾ Specifications are subject to changes without advance notice.



High Pulse Repetition Rate Mode-locked Lasers

FEATURES

- ▶ High up to **1 MHz** repetition rate
- ▶ Short pulse duration **~10 ps**
- ▶ High stability and excellent beam quality $M^2 < 1.5$
- ▶ Reliable hands-free operation
- ▶ Compact and simple design
- ▶ PC control and remote control keypad
- ▶ Low maintenance costs
- ▶ Single-phase powering
- ▶ No external cooling water

APPLICATIONS

- ▶ Spectroscopy
- ▶ Inspection
- ▶ Patterning
- ▶ Structuring
- ▶ Ablation
- ▶ Micromachining

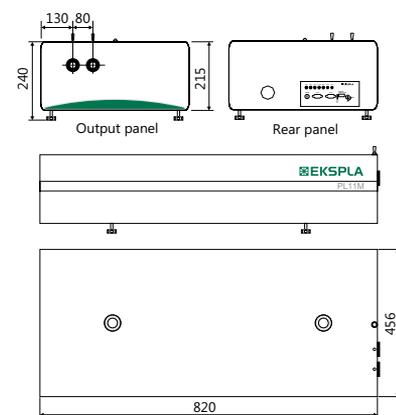


Fig 1. Dimensions of PL11M laser