

# Solid-State Lasers

## RL 10Q Series PL Lasers

Lasers of RL10Q series are compact solid-state devices designed for industrial applications as marking, engraving, diamond cutting, resistor trimming, etc.

### RL10Q-IR

- Collinear diode pumped RL10Q laser scheme gives high efficiency for TEM<sub>00</sub> single laser mode generation both in CW and Q-switched regime.
- Laser diode linear array, power supply, AO 80 MHz Q-switch driver, control/cooling system, communication ports are integrated in one compact module

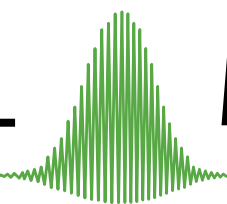


### RL10Q-G

- Using of fiber-coupled laser diode array allows localizing the main heat sources outside of cavity and to make the laser completely air-cooled one. User-friendly software RL10Q-G and standard IO ports, almost free of maintenance system allow easy integration of RL10Q lasers into fully automated equipment.



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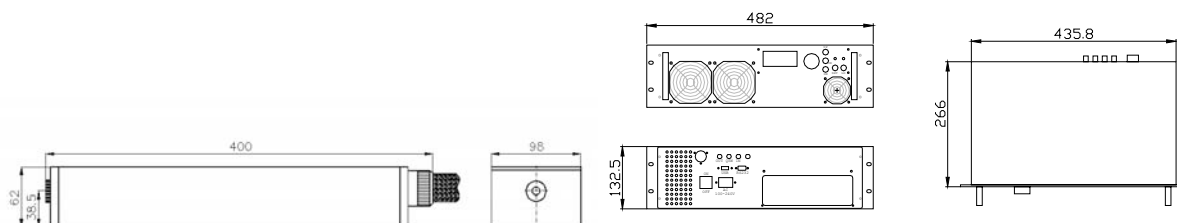
[www.dmpotonics.com](http://www.dmpotonics.com)



## Specifications

Parameter	RL10Q-IR	RL10Q-G
Wavelength	1064 nm	532 nm
Output power	10W at 10...20 kHz 3W at 1 kHz	5 W at 5-10kHz
Repetition rate	1-30 kHz	5-30 kHz
Pulse duration	<40ns at 1kHz	< 50ns at 5 kHz
Pulse energy stability	<50ns at 5kHz <90ns at 10kHz <2% at 10 kHz	< 70ns at 10 kHz < 90ns at 20 kHz < 1% at 5 kHz
Beam quality, M <sup>2</sup>	<1.2	<1.2
Polarization	Vertical, better 1:100	Vertical, 1:500
Sizes		
laser head	100(B)x65(H)x400 (L)mm	110(B)x65(H)x450 (L)mm
power supply	482(B)x132(H)x266(L)mm	482(B)x132(H)x266(L)mm
Weight		
laser head	5 kg	6.2 kg
power supply	8.3 kg	8.3 kg
LD type/power/fiber	HLU808/32/600	HLU808/32/600
Triggering Type	Internal, External TTL@50 Ohm	Internal, External TTL@50 Ohm
Power consumption	Single phase, 110-240V, 300W	Single phase, 110-240V, 300W

## Layout



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