

QL系列

特点：

- 波长262-1340 nm，功率高达4 W
- TEM₀₀，优异的光束质量
- 超低功耗、超高效率
- 空气冷却
- 即插即用，无噪音与振动
- 无与伦比的超紧凑结构设计，质量超轻
- 重频内置可调1 kHz-100 kHz，外部触发可调0 Hz-200 kHz



应用：材料加工、半导体检测、激光雷达、光致发光、太阳能材料加工、拉曼光谱、科研

技术参数

Laser crystals and Wavelengths		Max. average output power*							
	Nd:YAG/Nd:YVO4	Nd:YLF							
UV Laser	266 nm	262, 263 nm	75 mW	50 mW	30 mW	20 mW	10 mW	5 mW	
UV Laser	355 nm	349, 351 nm	200 mW	150mW	100 mW	50 mW	25 mW	10 mW	
Blue	473 nm	440, 447 nm	50 mW	25 mW					
Green	532 nm	523, 527 nm	2 W	1 W	500 mW	200 mW	100 mW	50 mW	
Red	671 nm	657, 660 nm	400 mW	200 mW	100 mW	50 mW			
IR Laser	1064 nm	1047,1053 nm	2 W	1 W	500 mW	200 mW			
More wavelengths available: 438,440,447,473,555,561,589,593,750-1000,946,1313,1320,1342 nm									
Pulse energy**	From 0.001mJ to 0.3 mJ or 1 mJ for Nd:YLF laser								
Pulse width	Typically 10 ns to 25 ns varies from lasers and rep. rate special selection from 1 ns to 300 ns available								
Repetition rate	1 kHz to 100 kHz internal adjustable 0 Hz to 200 kHz by external trigger								
External trigger signal	TTL, trig at rising edge								
Transverse beam mode	Single mode, TEM ₀₀ , M ² <1.3, typical M ² <1.1								
Longitudinal mode	Multiple longitudinal modes								
NEW LASER PRODUCTS	Single longitudinal mode Q-switched lasers								
Beam divergence	3 to 4 mrad, full angle, diffraction limited beam								
Beam point stability	+/-0.005 mrad/degree C								
Beam diameter (1/e ²)	IR 0.5 mm, Green 0.35 mm, UV 0.25 mm								
Power stability, rms	5% after warm-up, at 1 k to 10 kHz								
Pulse to pulse variation	+/-3% IR, +/-5% green, +/-10% UV								
Polarization ratio	100:1								
Dimensions of laser head	5x18.5x3.6 cm (L,W,H) Type 2, for most of the lasers or 7x18.5x3.6 cm (L,W,H) for high power lasers								
Dimensions of power supply	20x20x8 cm (L,W,H)								
Cooling	Laser head: conductive cooling; Power supply: fan								
Warm-up time	<3 min								
Operation temperature	10 to 35 degree C								
Operation voltage	90-250 VAC 12 VDC input available								
Power consumption	40 W, typical								

CL532-100-SO

Product Category

CL = Crystal Series

DL = Direct Series

QL = Q-Switched Series

Wavelength

532 – In Nanometers 3 digit

1064 – In Nanometers 4 digit

Laser Optical Power

500 – 3 digit Power in mW, 500mW

1W5 – 3 digit Power in W, 1.5W

Standard Laser Options

S = Single Longitudinal or Spectral Mode

L = Low noise version if the basic model doesn't already include this

3 = Extra long coherence length

T = Multiple Transverse Modes Present

Basic systems will have this location left blank, even if the basic system naturally includes

this option. This is to differentiate the standard option from the basic system.

Extra or Accessory Options

O = Standard option such as fiber coupling

X = Special or Custom Option

Generally this location will be left blank unless there are additional laser options, or accessory options

选型指南