

HQE Series High Energy Diode-pumped Solid-state Laser



HQE series high energy diode-pumped solid-state laser comes with optical pumping based on RealLight's self-developed high peak power diode-side-pumped laser modules. By optimizing the design of cavity resonator, HQE series delivers high energy, good beam quality, excellent efficiency, high repetition rate and average output power. This DPSS laser is a perfect replacement for flashlamp-pumped lasers and gas lasers, and is widely used in laser processing and medical applications.

Key Features

- ◆ Long lifetime, easy maintenance
- ◆ High conversion efficiency
- ◆ Excellent energy stability
- ◆ High repetition rate
- ◆ Top hat laser beam
- ◆ Good electromagnetic compatibility
- ◆ Fiber-coupled or free space output (can be split into multiple fibers)

Applications

- Aesthetic medicine
- Laser surgery and therapy
- Laser welding
- Material processing

Technical Specifications

Optical Parameters		
Part Number	HQE-1064-30-2-2-QCW-F600	HQE-1064-30-2-5-QCW-F600
Wavelength (nm)	1064	1064
Repetition rate (Hz)	1~30	1~30
Pulse energy (J)	2@2ms	5@2ms
Pulse width (ms)	0.2~2	0.2~2
Energy stability (RMS)	<2	<2
Beam full divergence (typ., mrad)	Horizontal@1/e ²	5
	Vertical@1/e ²	5
Beam diameter (mm)	3	6
Cooling	water cooled	water cooled
Output mode	fiber output	fiber output
Fiber core (μm)	600	600
System Parameters		
Supply power voltage	220VAC±5% 50-60Hz	
Power consumption (W)	1000	
Laser driver dimensions (W×H×L,mm)	482*88*612	
Laser head dimensions (W×H×L,mm)	200*92*500	
Operating temperature (°C)	20~25	

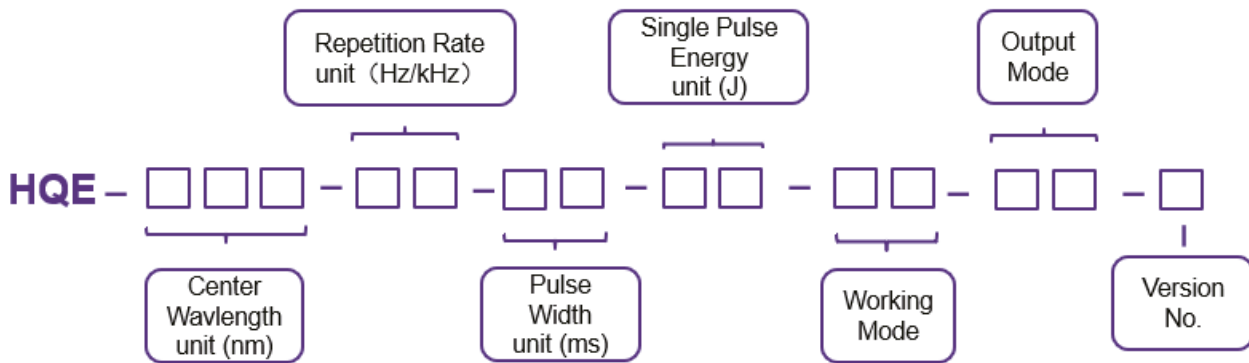


1. Fibers with 400μm, 600μm, 800μm or 1000μm fiber core are available.
2. Split configurations are available. Option fiber coupled output or free space output.
3. As products are constantly being updated, the right of final interpretation of technical specifications or illustrations in datasheet belongs to RealLight.

Order Information

Wavelength (nm)	Part Number	Repetition rate (Hz)	Pulse energy (J)	Pulse width (ms)
1064	HQE-1064-30-2-2-QCW-F600-A	1~30	2	0.2~2
	HQE-1064-30-2-5-QCW-F600-A		5	

Part Numbering Schema



Mechanical Drawings (in mm)

