

Key Features

- Single pulse energy up to 500mJ
- Peak power up to 1.5GW
- Repetition rate up to 10Hz
- Excellent beam homogeneity
- Great stability
- Compact design, sealed package,

high reliability

HQF Series Lamp-pumped **Picosecond MOPA Laser**

Applications

Laser ranging Aesthetic medicine Differential absorption lidar Particle image velocimetry (PIV) Laser shock processing (LSP) Laser-induced breakdown spectroscopy (LIBS) Laser-based ultrasound detection Laser-induced fluorescence (LIF) Non-linear optics Tissue ablation





Beam profile of the amplified pulse

Typical pulsewidth

Technical Specifications

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Part Number		HQF-1064/532-10-350-500/300-P	HQF-1064/532-10-350-350/200-P					
Repetition rate (Hz)		1~10	1~10					
Pulse energy (mJ)								
1064nm		500	350					
532nm		300	200					
		Energy stability RMS						
1064nm		<2%	<3%					
532nm		<3%	<4%					
Power drift ¹								
1064nm		<2%						
532nm		<3%						
		Other parameters						
Pulse width FWHM(ps)		350						
Beam full divergence (typ., mrad)	Horizontal @1/e ²	<3						
	Vertical @1/e ²	<3						
Beam diameter (mm)		~11						
Spatial profile		Top hat						
Polarization direction		Vertical						
Electrical supply		220VAC±5% 50~60Hz						
Power consumption		<1kW(500mJ@10Hz)						
Environment requirements		temperature 18~35°C, humidity <75%						

1. Average energy variation is measured at room temperature with fluctuations less than 3°C within 8 hours.

2. As products are constantly being updated, the right of final interpretation of technical specifications or illustrations in datasheet belongs to RealLight.

3. All the data in the above table are the typical values obtained from the tests at room temperature of 25 °C, and the final data is subject to the final test report.



Order Information

Wavelength (nm)	Part Number	Repetition Rate (Hz)	Pulse Width (ps)	Single Pulse Energy (mJ)
1064/532	HQF-1064/532-10-350-500/300-P	1~10	350	500@1064 300@532
	HQF-1064/532-10-350-350/200-P	1~10	350	350@1064 200@532

Part Numbering Schema



Mechanical Drawings (in mm)





HQF-1064/532-10-350-500/300-P



