# HQF Series Lamp-pumped Q-switched Nanosecond Laser



## **Key Features**

- Various options of energy
- Compact design
- Excellent beam quality
- Cost effective

## **Applications**

Aesthetic medicine Laser ranging

Differential absorption lidar Particle image velocimetry( PIV)

Micromachining Laser shock processing(LSP)

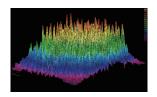
Laser-induced breakdown spectroscopy(LIBS)

Tissue ablation Raman spectroscopy

Non-linear optics



Beam Profile



Beam intensity distribution

# **Technical Specifications**

Part Number		HQF-1064/532-10-6-800/400-N	HQF-1064/532-10-6-1200/600-N				
Repetition rate (Hz)		1~10					
Pulse energy (mJ)							
1064nm		800	1200				
532nm		400	600				
Energy stability RMS							
1064nm		<2%					
532nm		<3%					
Power drift <sup>1</sup>							
1064nm		3%					
532nm		5%					
Other parameters							
Pulse width FWHM (ns)		5~8					
Beam full divergence	Horizontal @1/e²	<5					
(typ., mrad)	Vertical @1/e²	<5					
Pointing stability <sup>2</sup> (µrad)		<20					
Time jitter <sup>3</sup> (RMS,ns)		<0.5					
Beam diameter (mm)		~9					
Spatial profile		Top hat					
Polarization state		linear polarization					
Lamp lifetime (shot)		>6X10 <sup>7</sup>					
Electrical Supply		220VAC±5% 50~60Hz					
Power consumption		<1.0kW(800mJ@10Hz)					
Environment requirements		temperature 5~35°C,humidity <80%					

- 1. Average energy variation is measured at room temperature with fluctuations less than 3 °C within 8 hours.
- 2.Deviation from beam mean centroid.
- 3. With respect to external trigger.
- Others: Lasers with wavelength at 355nm or 266nm can be customized upon request.

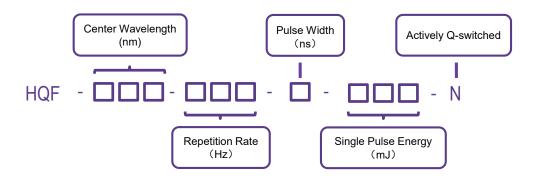




## **Order Information**

Wavelength (nm)	Part Number	Repetition Rate (Hz)	Single Pulse Energy (mJ)	Pulse Width (ns)
1064/532	HQF-1064/532-10-6-800/400-N	1~10	800@1064nm 400@532nm	5~8
	HQF-1064/532-10-6-1200/600-N	1~10	1200@1064nm 600@532nm	5~8

# Part Numbering Schema



# Mechanical Drawings (in mm)

