

Division	<b>DPSSL</b> Solid State Lasers
Product	LU-LPQ-1064-mJ
Description	<b>Diode pumped solid state laser.</b> Up to 20 mJ in less than 2 ns pulses at 1064 nm.
Main features	MOPA system. High pulse energy. ns laser pulses. Excelent beam quality. External trigger. Low cooling requirements. Monitor photodiode. Aiming beam.
Applications	LIBS. Laser-induced fluorescence. Time resolved luminescence and spectroscopy. Pumping. Plastic marking. Laser cleaning. LIDAR.
Picture	
Outline	

	Minimum	Operation	Ma
Wavelength [nm]		1064	
Pulse energy <sup>1</sup> [mJ]	<0.1	16	
Repetition rate [Hz]	1	100	
Pulse duration [ns]	1	2	
Timing jitter [µs]	1	2	
Average power [W]	0.8	1.6	
Output beam size [mm]		0.9	
Full angle divergence [mrad]		3.5	
Beam circularity		1:1,05	
Pointing stability [µrad]			
Operation temperature [°C]	20	25	
Storage temperature [°C]	-10		
Warm up time <sup>2</sup> [min]		5	
Thermal stabilisation	By TEC		
Laser head <sup>3</sup> dimensions	150x200x380		
Controlling unit dimension	Rack 19" compatible		
Laser class (EN-60825)	4		
Expected lifetime [hours]	10.000		

Note: Not all maximum specifications can be achieved at a time

1. The laser can be operated in a single pulse or multiple-pulses with a time gap between two successive pulses  $50 \pm 10 \mu\text{s}$ .
2. Depending on room temperature conditions.
3. The laser head housing is based on a very robust and sealed/dust-proof design.