

RL1064C Class 3B CW laser



RL1064C specifications

Centre wavelength†	1064.2 nm ± 0.6 nm	
Output power	100 mW	
Beam divergence (full angle, 1/e ²)	≤ 1.6 mrad	
Beam diameter at aperture	1000 µm ± 50 µm	
Beam waist location (from exit aperture)	± 200 mm	
Beam symmetry at aperture	> 0.95:1	
Beam pointing stability (after warm-up)	< 0.5 mrad	
Polarisation ratio	100:1 (vertical)	
Spatial mode	TEM ₀₀ , M ² < 1.1	
Spectral linewidth	< 1 MHz (< 0.01 pm)	
Input voltage	100 Vac to 240 Vac ± 10%	
Input frequency	50 Hz / 60 Hz	
Ripple and noise	1% peak to peak maximum, 20 MHz bandwidth	
Maximum power consumption	45 W	
Dimensions	Length Width Height	307 mm 114 mm 141 mm
Weight	Without kinematic baseplate With kinematic baseplate	4.4 kg 6 kg
Environment (as defined in EN BS 61010-1:2010)	Ambient temperature (recommended)	18 °C to 27 °C stable to ± 1 °C
	Ambient temperature (operating)	10 °C to 30 °C
	Ambient temperature (storage)	0 °C to 50 °C
	Ambient air pressure	950 mbar to 1050 mbar
	Altitude	Up to 2000 m
	Humidity	0 % to 80% RH, non-condensing
	Transient voltages	Installation category II
	Pollution degree	2
	Vibration / drop test in transport packaging	Up to 20 g
	For indoor use only	

† The wavelength is fixed with this accuracy. Drift is defined as wavelength stability. Wavelength is specified in air.

