

Specification for the Symphony® 532 nm Laser

Output beam parameters:	
Output wavelength	532 nm
Rated output power (CW)	500, 1000 & 1500mW
Output beam diameter	0.5 mm (+/- 0.2) @ 10mm $1/e^2$
Transverse mode structure	TEM ₀₀ , $M^2 < 1.05$
Divergence	<1mrad ½ angle
Beam pointing stability	≤ 10 µrad / °C
Longitudinal mode structure	SLM (Single frequency), <1MHz line width
Polarisation	Vertical
Polarisation ratio	≥ 100 : 1
Output power noise (p-p)	≤ 2 % (10 Hz - 10 MHz)
Output power noise (rms)	≤ 0.3 % (10 Hz - 10 MHz)
Output power stability	≤ 2 % (4 hours)
Design 01_07_0035	
Thermal management	TEC conductive cooling through customer's metal heat sink plate
Operating temperatures (base plate)	15 - 35 °C
Storage temperatures	10 - 50 °C
Laser head size (L x W x H)	186 x 139 x 96 mm
Laser head weight	2540 g
Controller 04_02_01	
Dimensions (LxWxH)	225 x 246 x 110 mm
Weight	2960 g
Accessories	
Power adapter	EN60 320-1 Standard Sheet C14 Class I Cold Condition (Fused) Voltage: 80 - 264 VAC, 47 - 400 Hz
Cables	Included
Weight	1200 g

CW operation, turnkey system, output power fixed, completely aligned and sealed at production, no further alignment needed by user. Specification may be subject to some change without notice.



