

BRaMMS-Solo - 640/XXXX

- from 100 mW to 1000 mW output power at 640 nm SLM
- feedback locked Single Longitudinal Mode CW operation
- mode hops and lock loss free
- very low noise performance
- excellent beam quality from smallest footprint
- lowest power consumption for given output



BRaMMS – Solo - 640/1000

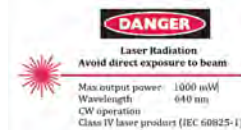
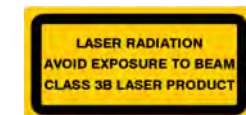
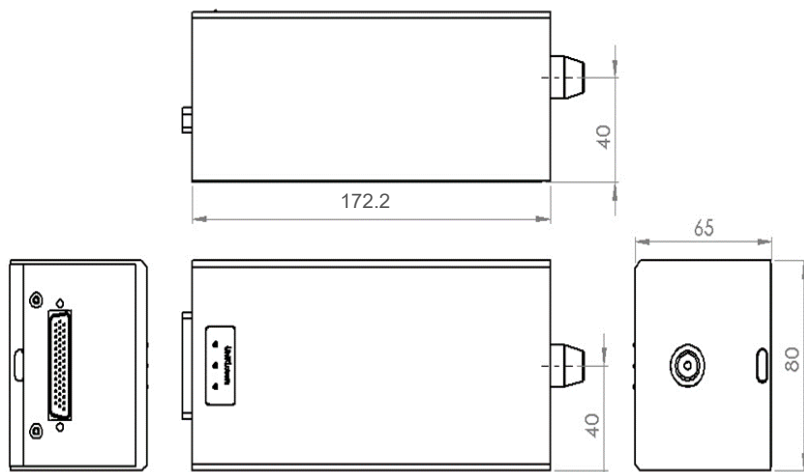
		<i>Units</i>	
Output Beam Parameters:			
Output Power (fixed values within range)	mW		100 - 1000
Power Control (optional)	–		Externally via manual power adjuster (MPA)
Wavelength	nm		639.7 ± 0.2
Beam Spatial Mode	–		TEM ₀₀
Beam Diameter at output aperture	mm		0.8 - 1.2
Beam Divergence	mrad		< 1, diffraction limited
Beam Pointing Stability	µrad/°C		≤ 5
Longitudinal Mode Structure	–		SLM
Line Width	MHz		< 0.5
Line Spectral Position Stability (4 hours)	pm		±1.25
Coherence Length	m		> 100
Mode Hops Free Fine Tuning Range (optional)	GHz		10 - 30 (upon request)
Polarisation	–		Linear, Vertical; ≥100:1
Output Power Noise (10 Hz – 10 MHz)	%		≤ 0.1rms, ≤ 1p-p
Output Power Stability (4 hours)	%		≤2
Environmental Conditions:			
Working Temperatures	°C		15 – 30, at mounting interface
Storage Temperatures	°C		-20 to 60
Humidity	%		5 -95, non-condensing
Warm up time	min		<30
Electrical:			
Supply Voltage	DC		19
Power Consumption (at 25 °C)	W		<200

*Fixed output power turnkey system, CW operation, factory aligned and sealed.
Specification may be subject to change without notice.*

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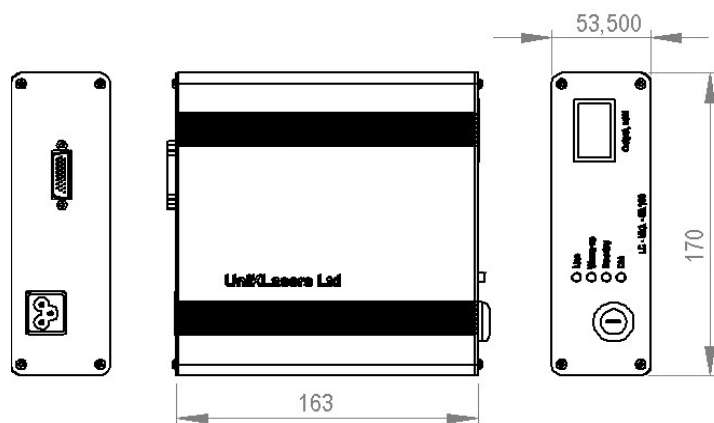
BRaMMS-Solo - 640/XXXX Laser Head and Controller Dimensional Specification

Laser Head: 80x 65 x 172.2 mm



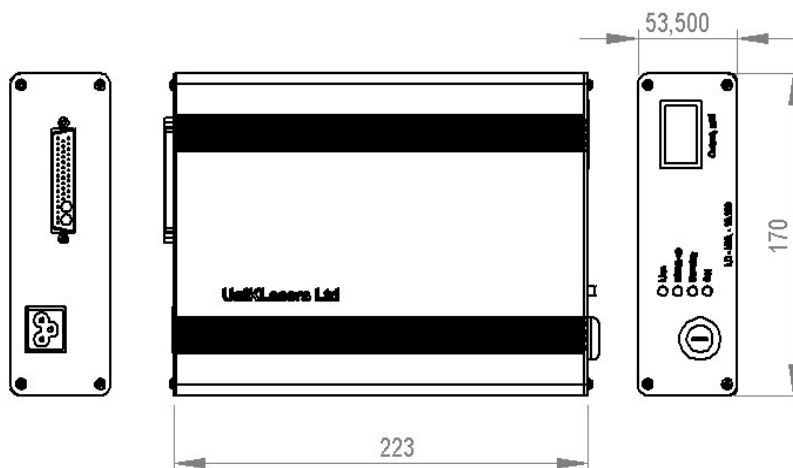
Lower Powers Version Controller:

170 x 53.5 x 163 mm



Higher Powers Version Controller:

170 x 53.5 x 223 mm



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