

**BRaMMS-Solo - 640/XXXX**

- from 10 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



BRaMMS – Solo - 640/1000

**Units**

<b>Performance Parameters:</b>		
Wavelength	nm	640
Output Power (fixed values within range)	mW	10 - 1000
Output Power Stability (8 hrs operation)	%	≤2
Output Power Noise (10 Hz – 10 MHz)	%	≤ 0.1rms
Power Control	—	optional
Beam Spatial Mode	—	TEM <sub>00</sub>
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
Linewidth (FW@e-2)	MHz	≤ 0.5
Line Spectral Position Stability (8 hrs operation)	pm	±1
Coherence Length	m	≥ 100
Mode Hops Free Fine Tuning Range	GHz	optional
Polarisation	—	Linear, Vertical; ≥100:1
Warm up time (output power dependent)	min	5-30
<b>Environmental requirements:</b>		
Thermal	—	Laser Head Interface Temperature Stability +/- 1.5 °C within Ambient Temperature Range 18 – 30 °C
Storage Temperatures	°C	0 - 50
Humidity	%	5 – 95, non-condensing

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

**BRaMMS-Solo - 640/XXXX**

*Units*

<i>Laser Head Dimensions:</i>		
Laser Head Footprint (length x width)	mm	207 x 80
Beam Height	mm	75
<i>Controller Dimensions:</i>		
Controller (length x width x height)	mm	238 x 170 x 54
Cable (length)	m	2



**Laser Radiation**  
 Avoid direct exposure to beam

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Max output power 1000 mW  
 Wavelength 640 nm  
 CW operation  
 Class IV laser product (IEC 60825-1)

**Optional Features and Items:**

Remote Switch On/Off functionality via GUI
Remote Output Power adjustment via GUI
Remote Control and Diagnostics service plan
Thermo-Electrically Controlled Chiller (Cooling Capacity ( $\Delta T=0$ ) - 90W; Flow Rate - 4 l/min)

