

BRaMMS-Solo - 813.42 XXX QT

- from 10 mW to 500 mW output power at 813.42 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 - 813.42/500 QT

	Units	
Performance Parameters:		
Wavelength	nm	813.42
Output Power (fixed values within range)	mW	10 - 500
Output Power Stability (8 hrs operation, +/-1.5 °C)	%	≤2
Output Power Noise (10 Hz – 10 MHz)	%	≤ 0.1rms
Power Control	–	optional
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
Linewidth (intracavity SLM, no external reference)	MHz	≤ 0.3
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
Environmental requirements:		
Thermal	–	Laser Head Interface Temperature Stability +/- 0.5 °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.*

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BRaMMS-Solo - 813.42/XXX QT

Units

<i>Laser Head Dimensions:</i>		
Laser Head Footprint (length x width)	mm	222 x 110
Beam Height	mm	75
<i>Controller Dimensions:</i>		
Controller (length x width x height)	mm	238 x 170 x 54
Cable (length)	m	2



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)

