

### BRaMMS-Solo - 523/XXXX



BRaMMS - Solo - 523/300

- from 50mW to 1000mW output power at 523nm 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

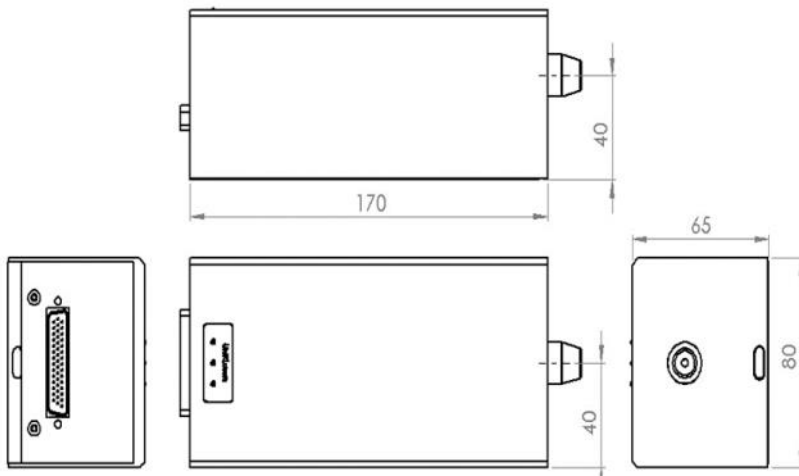
<b>Units</b>
--------------

<b>Output Beam Parameters:</b>		
Output Power (fixed values within range)	mW	50 - 1000
Power Control (optional)	—	Externally via manual power adjuster (MPA)
Wavelength	nm	523 ± 0.2
Beam Spatial Mode	—	TEM <sub>00</sub>
Beam Diameter at output aperture	mm	0.8 ± 0.1
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 (±5 °C, 4 hours)	pm	±1.3
Coherence Length	m	> 100
Mode Hops Free Fine Tuning Range (optional)	GHz	25 - 30
Polarisation	—	Linear, Vertical; ≥100:1
Output Power Noise (10Hz - 10MHz)	%	≤ 0.1rms, ≤ 1p-p
Output Power Stability (4 hours, ±5 °C)	%	≤2
<b>Environmental:</b>		
Working Temperatures	°C	15 - 35, conductive cooling via mounting interface
Storage Temperatures	°C	-20 to 60
Humidity	%	5 -95, non-condensing
Warm up time	min	<10
<b>Dimensions and Electrical:</b>		
Supply Voltage	DC	19
Power Consumption (at 25 °C)	W	<60

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

**BRaMMS-Solo - 523/XXXX Laser Head and Controller Dimensional Specification**

**Laser Head: 80x 65x 170mm**



**LASER RADIATION**  
**AVOID EXPOSURE TO BEAM**  
**CLASS 3B LASER PRODUCT**

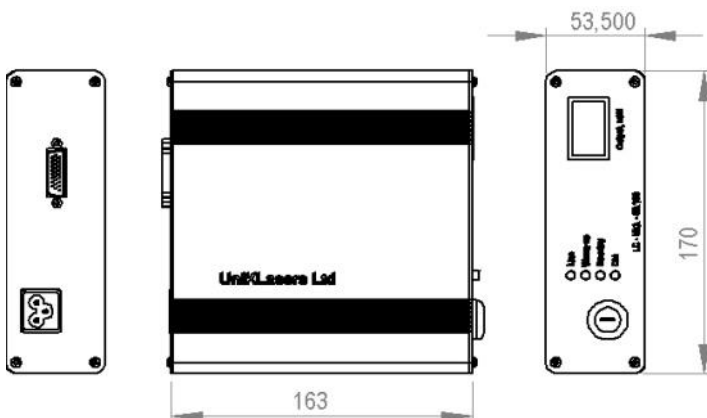
**DANGER**

Laser Radiation  
 Avoid direct exposure to beam

Max output power: 500mW  
 Wavelength: 523nm  
 CW operation  
 Class IIIb laser product (IEC 60825-1)

**Controller**

170x 53.5x 163mm



**LASER RADIATION**  
**AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION**  
**CLASS 4 LASER PRODUCT**

**DANGER**

Laser Radiation  
 Avoid direct exposure to beam

Max output power: 1W  
 Wavelength: 523nm  
 CW operation  
 Class IV laser product (IEC 60825-1)