

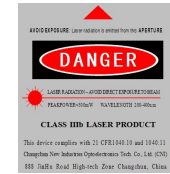


**MRL-U-xxx-SU series**



**LD PUMPED ALL-SOLID-STATE LASER**

All solid state laser is made features of high output power stability, good beam profile, ultra compact, long lifetime and easy operating, which is widely used in collimation, laser medical treatment, scientific experiment, optical instrument, etc.



**SPECIFICATIONS**

Part number	MRL-U-607-SU	MRL-U-639-SU	MRL-U-721-SU
Wavelength (nm)	607±1	639±1	721±1
Operating mode	CW		
Output power (mW) <sup>1</sup>	1-500	1-800	1-800
Power stability (rms, 4 hours±3°C)	<2%, <1%, <0.5%		
Transverse mode	TEM <sub>00</sub>		
M <sup>2</sup>	<1.2	<1.2, <1.1	<1.2
Beam diameter at the aperture (1/e <sup>2</sup> , mm)	<1.0		
Beam divergence, full angle (mrad)	<1.5		
Polarization ratio	>100:1, Vertical (Horizontal optional)	>100:1, Horizontal (Vertical optional)	>100:1, Vertical (Horizontal optional)
Warm-up time (minutes)	<5		
Pointing stability after warm-up (mrad)	<0.05		
Beam height from base plate (mm)	27.4		
Operating Temperature (°C)	10-35		
Modulation optional	DC-1kHz, 1kHz-10kHz, 10kHz-30kHz optional; TTL and Analog optional		
Power supply (100-240VAC)	PSU-H-FDA/ PSU-H-LED/ PSU-SR		
Expected lifetime (hours)	>10000		

LASER HEAD <sup>2</sup>	HEATSINK (OPTIONAL TC-04-FS)	POWER SUPPLY (PSU-H-FDA) <sup>3</sup>
<p>160(L)×60(W)×50(H) mm<sup>3</sup>, 0.9kg</p>	<p>220(L)×110(W)×47.5(H) mm<sup>3</sup>, 1.25 kg</p>	<p>276.6(L)×145(W)×103.6(H) mm<sup>3</sup>, 2.3 kg</p>
POWER SUPPLY (PSU-H-LED) <sup>4</sup>	POWER SUPPLY (PSU-SR) <sup>4</sup>	POWER SUPPLY (PSU-SR-OEM) <sup>4</sup>
<p>273.6 (L)×145(W)×106 (H) mm<sup>3</sup>, 2.3 kg</p>	<p>188(L)×145(W)×83(H) mm<sup>3</sup>, 1.2kg</p>	<p>150(L)×111(W)×41.3(H) mm<sup>3</sup>, 0.8kg</p>

1 Any power level can be selected in this range.

2 The laser head needs to be used on a heat sink with good heat dissipation.

3 Fixed output power.

4 Output power adjustable 10-100%; RS232 control optional.