



MLL-III-642/1~200mW



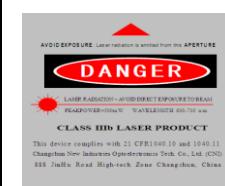
### LOW NOISE RED DIODE LASER AT 642nm

Low noise red diode laser at 642nm is made features of ultra compact, long lifetime, cost-effectiveness and easy operating, which is widely used in measurement, spectrum analysis, laser lighting show, etc.



### SPECIFICATIONS

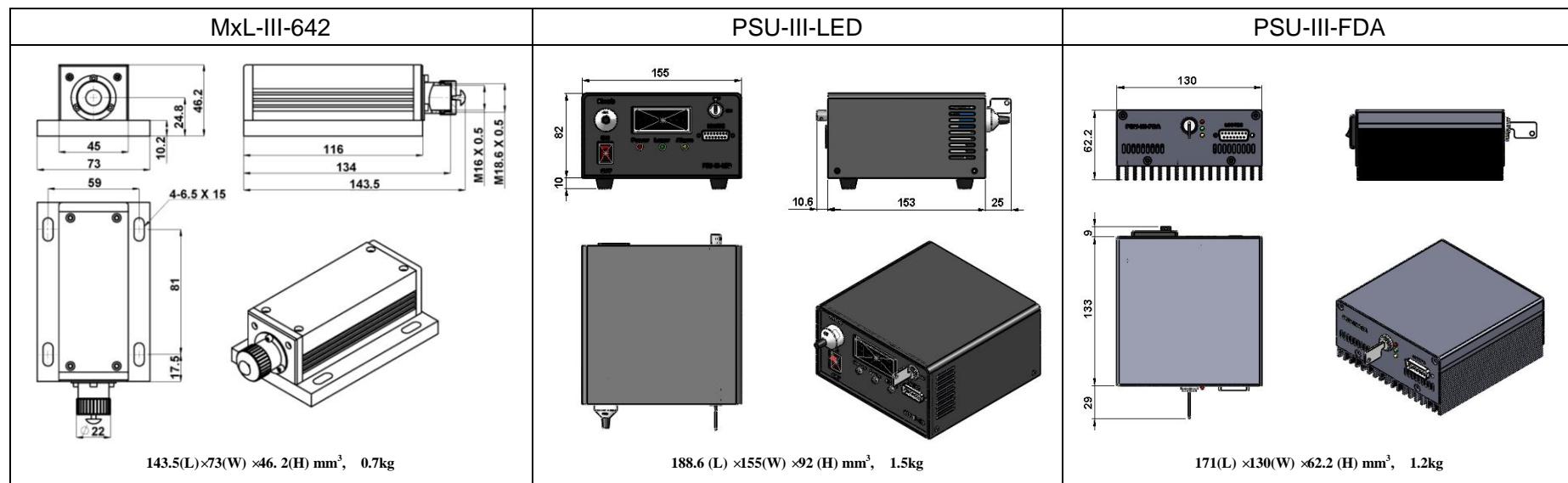
Wavelength (nm)	642±5
Operating mode	CW
Output power (mW)	>1,10,20,...,200
Power stability (rms, over 4 hours)	<1%, <3%, <5%
Transverse mode	Near TEM <sub>00</sub>
Noise of amplitude (rms, 20Hz~20MHz)	<1%
M <sup>2</sup> factor	<1.5 (<1.2, optional)
Beam diameter at the aperture (1/e <sup>2</sup> ,mm)	~3.0 (~1.2, optional)
Beam divergence, full angle (mrad)	<1.0
Polarization ratio	>50:1 (>100:1, optional) Horizontal ±5 degree (Vertical Optional)
Warm-up time (minutes)	<5
Pointing stability after warm-up (mrad)	<0.05
Beam height from base plate (mm)	24.8
Operating temperature (°C)	10~35
Power supply (85-264VAC)	PSU-III-LED/ PSU-III-FDA
TTL / Analog modulation	TTL or Analog with 1Hz-1KHz 1KHz-10KHz, 10KHz-30KHz optional
Expected lifetime (hours)	10000
Warranty	1 year



AVOID EXPOSURE. Laser radiation is emitted from the APERTURE.  
DANGER  
LASER RADIATION - AVOID DIRECT EXPOSURE TO BEAM  
PEAKPOWER:500mW WAVELENGTH:640-700 nm

CLASS IIIb LASER PRODUCT

This device complies with 21 CFR 1040.10 and 1040.11  
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