

# Opto Engine LLC

## Data sheet

Rev. 2102

MDL-XD-637/640/642/3-4W



**RED DIODE LASER  
AT 637/640/642nm**

It features ultra compact design, long lifetime, cost-effectiveness and easy operation. They are widely used in measurement, spectrum analysis, laser lighting show, etc.



### SPECIFICATIONS

Central wavelength (nm)	637±5/ 640±5/ 642±5
Operating mode	CW
Output power (mW)	3000, 4000
Power stability (rms, over 4 hours)	<1%, <2%, <3%
Polarization direction	Horizontal+Vertical
Beam diameter at the aperture (1/e <sup>2</sup> , mm)	~5×4
Beam divergence, full angle (mrad)	<2.6×1.2
Warm-up time (minutes)	<5
Beam height from base plate (mm)	89
Operating temperature (°C)	10-35
Power supply (100-240VAC)	PSU-N-LED/ PSU-N-FDA
TTL / Analog modulation	TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz optional
Expected lifetime (hours)	10000
Warranty	1 year



MDL-XD-637/640/642	PSU-N-LED	PSU-N-FDA
237(L)×150(W)×115(H) mm <sup>3</sup> , 6.6 kg	307(L)×150(W)×106(H) mm <sup>3</sup> , 3.0 kg	307(L)×150(W)×106(H) mm <sup>3</sup> , 3.0 kg