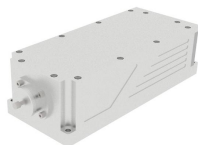


TEM-FN-642/1~180mW (TEM₀₀)



**RED DIODE LASER
AT 642nm**

It features TEM₀₀ mode, ultra compact design, long lifetime, cost-effectiveness and easy operation. They are used in measurement, communication, spectrum analysis, etc

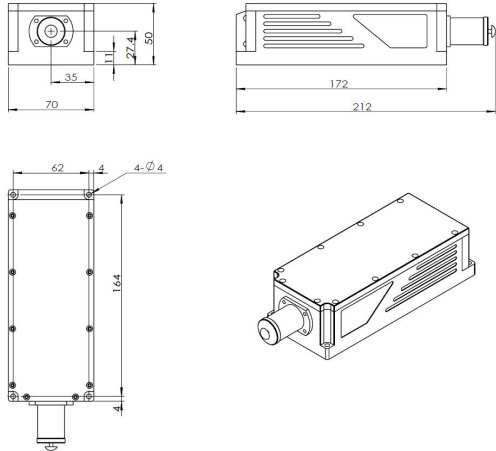
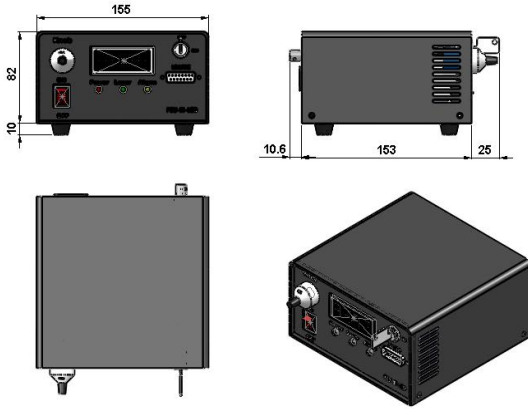
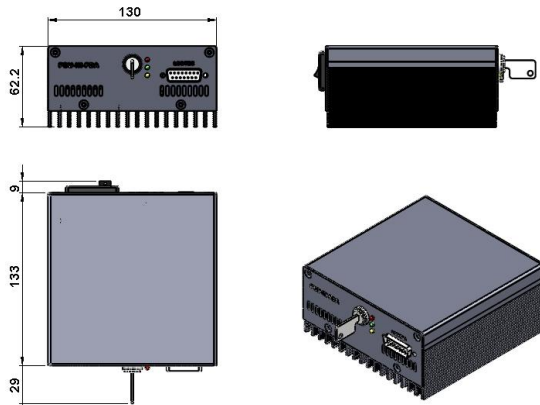


SPECIFICATIONS

Central wavelength (nm)	642±10	
Operating mode	CW	
Output power (mW)	1-180	
Power stability (rms, over 4 hours)	<2%, <1%, <0.5%	
Transverse mode	TEM ₀₀	
Ellipticity	>0.95	
M ² factor	<1.1	
Beam diameter at the aperture (1/e ² ,mm)	~1.0	
Beam divergence, full angle (mrad)	<1.5	
Warm-up time (minutes)	<5	
Beam height from base plate (mm)	25	
Operating temperature (°C)	25+/-3	
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	



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

TEM-FN-637	PSU-III-LED	PSU-III-FDA
 212 (L) ×70(W) ×50 (H) mm³, 0.9kg	 188.6 (L) ×155(W) ×92 (H) mm³, 1.5kg	 171(L) ×130(W) ×62.2 (H) mm³, 1.2kg