



# Lasertack

## New Laser Generation

OEM-U-457 /1-400mW



### ULTRA- LOW NOISE DPSS LASER AT 457nm

Low noise laser at 457nm is made features of ultra compact, long lifetime, high stability and reliability, which is used in scientific experiment, medical measurement, instrument, spectrum analysis, etc.



#### SPECIFICATIONS

Central wavelength (nm)	457±1
Operating mode	CW
Output power (mW)	>1, 5, 10, 20, ... , 400
Power stability (rms, over 4 hours)	<3%, <5%, <10%
Transverse mode	TEM <sub>00</sub>
Spectral linewidth (nm)	<0.003
Noise of amplitude (rms, 1Hz~20MHz)	<0.5%, <1%
M <sup>2</sup> factor	<1.5
Beam diameter at the aperture (1/e <sup>2</sup> , mm)	0.70±0.05
Beam divergence (mrad)	<1.5
Polarization Ratio	>100:1, Vertical±5 degree
Warm-up time (minutes)	<10
Pointing stability after warm-up (mrad)	<0.05
Beam height from base plate (mm)	27.4
Laser head consumption(W)	15 (typical) , <25 (40°C)
Max. Laser Head Base plate Temp (°C)	50
Operating Temperature (°C)	10-40
Driver (12VDC)	PSU-SR-DC12V
Modulation option	TTL on/off, 1Hz-1KHz, 1KHz-10KHz, 10KHz-30KHz; and Analog modulation optional
Expected lifetime (hours)	10000
Warranty	1 year



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

OEM-U-457	PSU-SR-DC12V
<p>142.5 (L)×60(W) ×50(H) mm<sup>3</sup>, 1.0 kg</p>	<p>152(L) ×114(W) ×50(H) mm<sup>3</sup>, 0.5kg</p>