**Opto Engine LLC** 

### MSL-FN-457/1~350mW



## SINGLE LONGITUDINAL MODE BLUE LASER AT 457nm

All solid state single longitudinal mode blue laser at 457nm is made features of ultra compact, long lifetime, low cost and easy operating, which is used in DNA sequencing, flow cytometry, cell sorting, optical instrument, spectrum analysis, interference, measurement, holography, physics experiment, etc.



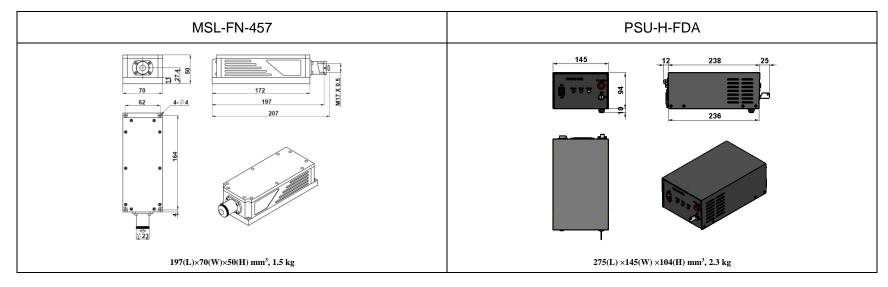
#### SPECIFICATIONS

Wavelength (nm)	457±1	457±1	
Operating mode	CW	CW	
Output power (mW)	>1, 5, 10, 20, , 150	>150, 160,, 350	
Power stability (rms, over 4 hours)	<1%, <2%, <3%	<2%, <3%, <5%	
Transverse mode	$TEM_{00}$	Near TEM <sub>00</sub>	
Longitudinal mode	Single		
Spectral linewidth (nm)	< 0.00001	<0.00001	
Coherent length (m)	>50		
Noise of amplitude (rms, 1Hz~20MHz)	<1%, typical<0.5%	<1%, typical<0.5%	
M <sup>2</sup> factor	<1.2		
Beam diameter at the aperture (1/e <sup>2</sup> , mm)	<2.0		
Beam divergence, full angle (mrad)	<1.2		
Polarization ratio	>100:1, Vertical±5 degree (Horizontal Optional)		
Warm-up time (minutes)	<10	<10	
Pointing stability after warm-up (mrad)	< 0.05	<0.05	
Beam height from base plate (mm)	27.4	27.4	
Operating temperature (°C)	15~35	15~35	
Power supply (90-264VAC)	PSU-H-FDA	PSU-H-FDA	
Expected lifetime (hours)	10000	10000	
Warranty	1 year	1 year	



This device complies with 21 CFR1040.10 and 1040.11 Changchan New Industries Optoelectronics Tech. Co., Ltd. (CN 888 JinHu Road High-tech Zone Changchun, Chin

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



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# **Data sheet**

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