Opto Engine LLC

Data sheet

Rev. 1609

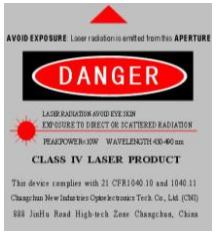
MBL-N-457/1000~2000mW

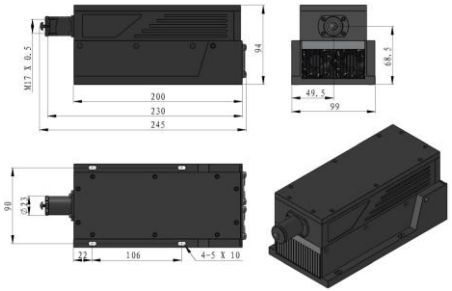
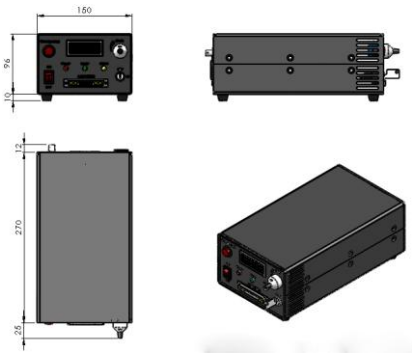
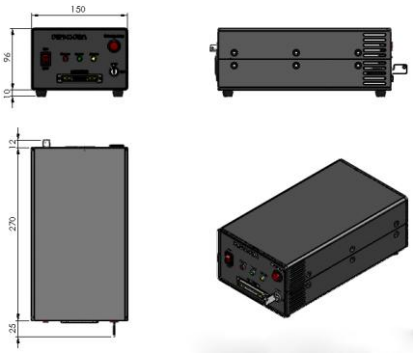
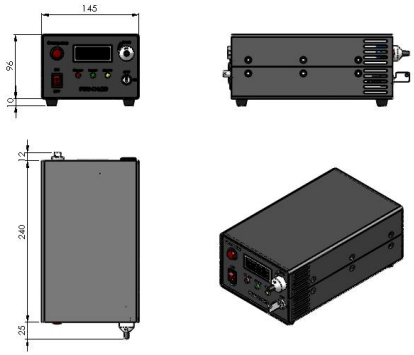
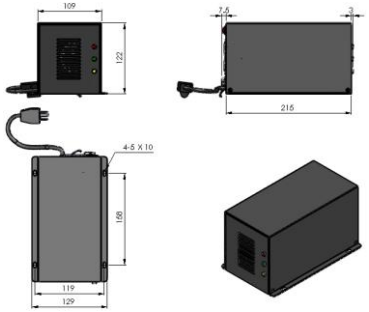
LD PUMPED ALL-SOLID-STATE BLUE LASER AT 457NM

All solid state 457 nm blue laser is made features of ultra compact, long lifetime and easy operating, which is widely used in collimation, laser medical treatment, scientific experiment, optical instrument, laser display, laser lighting show, etc.

SPECIFICATIONS

Model	MBL-N-457A (Good beam)	MBL-N-457B (Normal Product)
Wavelength (nm)	457±1	
Operating mode	CW	
Output power (mW)	>1000, 1200,…, 1500	>1000, 1500,…, 2000
Power stability (rms, over 4 hours)	<1%, <3%, <5%, <10%	
Transverse mode	TEM_{00}	Near TEM_{01}
M^2 factor	<1.5	<3.0
Beam divergence, full angle (mrad)	<1.2	
Beam diameter at the aperture ($1/e^2$,mm)	~2.0	~3.0
Warm-up time (minutes)	<10	
Polarization ratio	>100:1	
Beam height from base plate (mm)	68.5	
Operating temperature (℃)	20~30	10~35
Power supply (90-264VAC)	PSU-H-LED/ PSU-H-FDA	PSU-H-LED/PSU-N-OEM
TTL / Analog modulation	TTL or Analog with 1Hz-1KHz 1KHz-10KHz, 10KHz-30KHz optional	
Expected lifetime (hours)	10000	
Warranty period	1 year	



MxL-N-457	MBL-N-457A		MBL-N-457B	
	PSU-H-LED	PSU-H-FDA	PSU-H-LED	PSU-N-OEM
				
245(L) ×99(W) ×94(H) mm³, 2. 6 kg	307 (L) ×150(W) ×106 (H) mm³, 2.9 kg	307(L) ×150(W) ×106 (H) mm³, 2.9 kg	277(L) ×145(W) ×106 (H) mm³, 2.6 kg	215 (L) ×129 (W) ×122 (H) mm³, 2.1kg

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