



MBL-W-457/1~5W



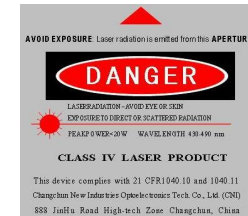
LD PUMPED ALL-SOLID-STATE BLUE LASER

All solid state 457nm blue laser is made features of ultra compact, long lifetime and easy operating, which is used in fluorescence sensors, Raman spectrum, laser printing, holography, laser display, submarine communication, biomedicine, laser lighting show, etc.

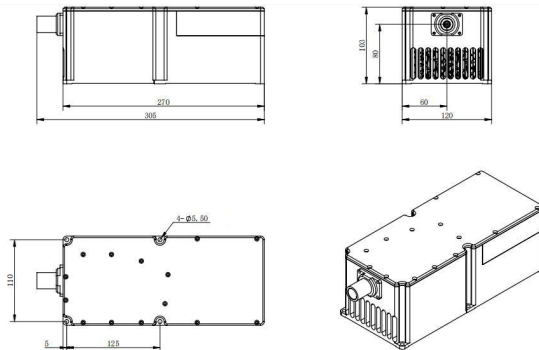


SPECIFICATIONS

Model	MBL-W-457A		MBL-W-457-Water
Wavelength (nm)	457±1		
Operating mode	CW		
Output power (W)	>1, 2, ..., 3	>4, 4.5, ..., 5	>1, 2, ..., 5
Power stability (rms, over 4 hours)	<3%, <2%, <1%		<2%, <1%, <0.5%
Transverse mode	TEM ₀₀	Near TEM ₀₀	TEM ₀₀
M ² factor	<1.2	<5.0	<1.2
Beam divergence, full angle (mrad)	~1.0	~1.5	~1.0
Beam diameter at the aperture (1/e ² , mm)	~2.0	~3.0	~2.0
Warm-up time (minutes)	<10		
Polarization ratio	>50:1(>100:1 optional)		
Cooled method	Air Cooled		Water Cooled
Beam height from base plate (mm)	80		85
Operating temperature (°C)	20~30		10~35
Power supply (100-240VAC)	PSU-W-LED/PSU-W-FDA		
TTL / Analog modulation	TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz optional		
Expected lifetime (hours)	10000		
Warranty period	1 year		
Options	Linear power regulation 0-100% with constant beam quality. Part number: MBL-W-457A-HQ/MBL-W-457-Water-HQ.		

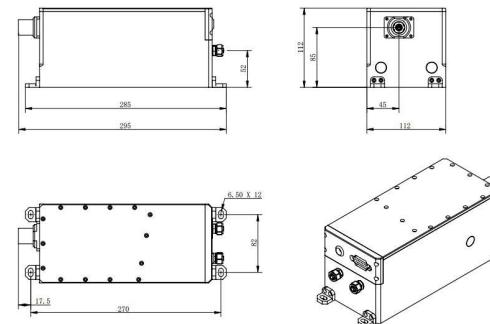


MBL-W-457A



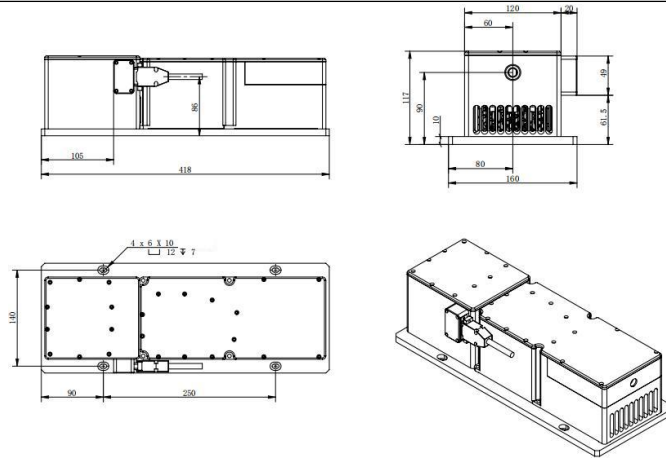
305 (L) × 120 (W) × 103 (H) mm³, 5.4 kg

MBL-W-457-Water



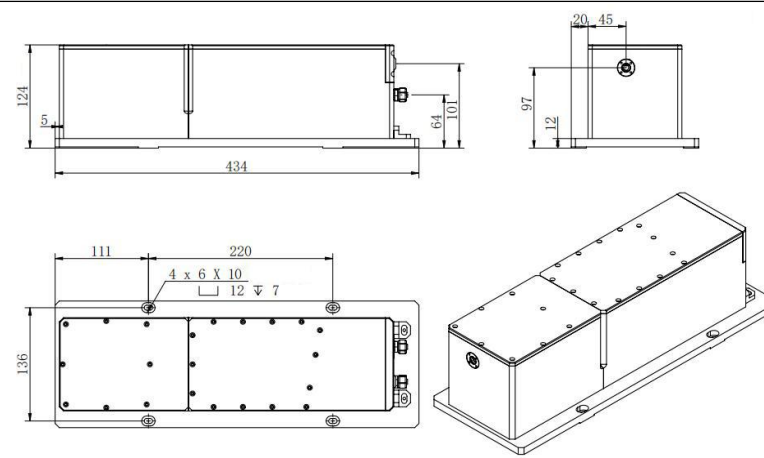
295 (L) × 112 (W) × 112 (H) mm³, 5.0 kg

MBL-W-457A-HQ



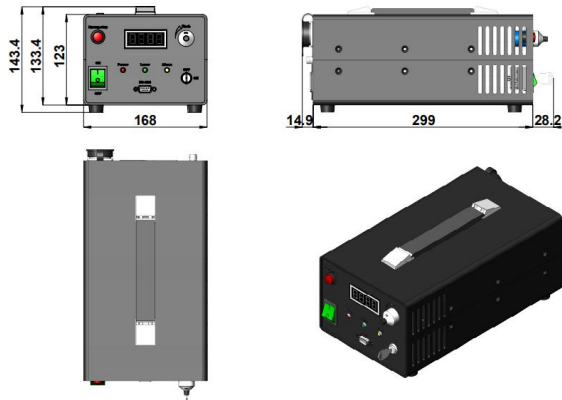
418 (L) × 160 (W) × 117 (H) mm³, 9.8 kg

MBL-W-457-Water-HQ



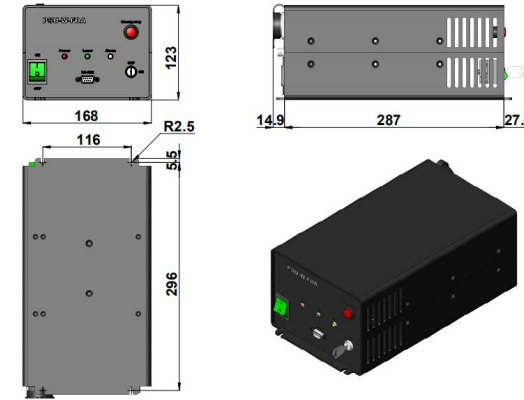
434 (L) × 152 (W) × 124 (H) mm³, 9.4 kg

PSU-W-LED



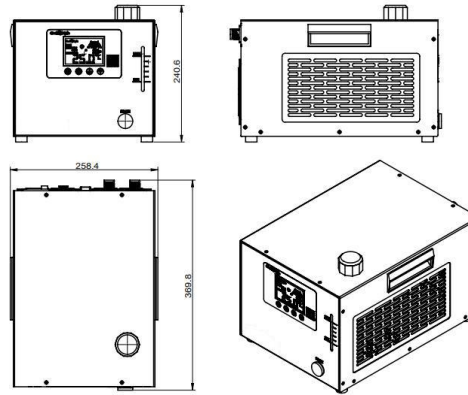
342.1 (L) × 168 (W) × 143.4 (H) mm³, 4.2 kg

PSU-W-FDA



329.1 (L) × 168 (W) × 123 (H) mm³, 4.1 kg

Water Chiller (WCH-580)



369.8 (L) × 258.4 (W) × 240.6 (H) mm³, 10.5 kg