



MxL-U-xxx-OEM series



DPSS LASER

All solid state laser 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

Part number	MBL-U-457-OEM		MBL-U-473-OEM		MGL-U-532-OEM	
Wavelength (nm)	457±1		473±1		532±1	
Operating mode	CW					
Output power (mW)	1-200	200-500	50-200	200-300	300- 1000	1000-1500
Power stability (rms, over 4 hours)	<3%,<2%,<1%	<5%,<3%,<2%	<3%,<2%,<1%	<5%,<3%,<2%	<3%,<2%,<1%	<3%,<2%
Transverse mode	TEM <sub>00</sub>					
M <sup>2</sup> factor	<1.5		<1.2			
Beam diameter at the aperture (1/e <sup>2</sup> , mm)	<1.0					
Beam divergence (mrad)	<1.5					
Polarization Ratio	>100:1, (Horizontal or Vertical Optional)					
Warm-up time (minutes)	<5					
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					
Modulation optional	TTL on/off, 1Hz-1kHz, 1kHz-10kHz, 10kHz-30kHz; and Analog modulation optional					
Power supply (90-264VAC)	PSU-H-LED/ PSU-H-FDA/ PSU-SR PSU-H-OEM/ PSU-SR-DC12V (OEM)/ PSU-SR-OEM					
Expected lifetime (hours)	10000					
Warranty	1 year					

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



**SPECIFICATIONS**

Part number	MGL-U-543-OEM	MGL-U-556-OEM	MGL-U-561-OEM		MGL-U-577-OEM	
Wavelength (nm)	543±1	556±1	561±1		577±2	
Operating mode	CW					
Output power (mW)	1-200	1-200	50-100	100-300	30-100	100-500
Power stability (rms, over 4 hours)	<3%,<2%,<1%	<3%,<2%,<1%	<3%,<2%,<1%	<3%,<2%	<3%,<2%,<1%	<5%,<3%,<2%
Transverse mode	TEM <sub>00</sub>					
M <sup>2</sup> factor	<1.2				<1.5	
Beam diameter at the aperture (1/e <sup>2</sup> , mm)	<1.0					
Beam divergence (mrad)	<1.5					
Polarization Ratio	>100:1, (Horizontal or Vertical Optional)					
Warm-up time (minutes)	<5					
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					
Modulation optional	TTL on/off, 1Hz-1kHz, 1kHz-10kHz, 10kHz-30kHz; and Analog modulation optional					
Power supply (90-264VAC)	PSU-H-LED/ PSU-H-FDA/ PSU-SR PSU-H-OEM/ PSU-SR-DC12V (OEM)/ PSU-SR-OEM					
Expected lifetime (hours)	10000					
Warranty	1 year					

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



**SPECIFICATIONS**

Part number	MGL-U-585-OEM	MGL-U-588-OEM	MGL-U-589-OEM
Wavelength (nm)	585±1	588±1	589±1
Operating mode	CW		
Output power (mW)	1-50	50-200	50- 200
Power stability (rms, over 4 hours)	<5%,<3%,<2%	<3%,<2%,<1%	<3%,<2%,<1%
Transverse mode	Near TEM <sub>00</sub>	TEM <sub>00</sub>	
M <sup>2</sup> factor	<2.0	<1.2	
Beam diameter at the aperture (1/e <sup>2</sup> , mm)	<1.0		
Beam divergence (mrad)	<1.5		
Polarization Ratio	>100:1, (Horizontal or Vertical Optional)		
Warm-up time (minutes)	<5		
Pointing stability after warm-up (mrad)	<0.05		
Beam height from base plate (mm)	27.4		
Laser head consumption(W)	15 (typical) , <25 (40℃)		
Max. Laser Head Base plate Temp (°C)	50		
Operating Temperature (°C)	10-40		
Modulation optional	TTL on/off, 1Hz-1kHz, 1kHz-10kHz, 10kHz-30kHz; and Analog modulation optional		
Power supply (90-264VAC)	PSU-H-LED/ PSU-H-FDA/ PSU-SR PSU-H-OEM/ PSU-SR-DC12V (OEM)/ PSU-SR-OEM		
Expected lifetime (hours)	10000		
Warranty	1 year		

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



**SPECIFICATIONS**

Part number	MRL-U-671-OEM	
Wavelength (nm)	671±1	
Operating mode	CW	
Output power (mW)	200-300	300-500
Power stability (rms, over 4 hours)	<3%, <2%, <1%	<3%, <2%
Transverse mode	TEM <sub>00</sub>	
M <sup>2</sup> factor	<1.2	
Beam diameter at the aperture (1/e <sup>2</sup> , mm)	<1.0	
Beam divergence (mrad)	<1.5	
Polarization Ratio	>100:1, (Horizontal or Vertical Optional)	
Warm-up time (minutes)	<5	
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	
Modulation optional	TTL on/off, 1Hz-1kHz, 1kHz-10kHz, 10kHz-30kHz; and Analog modulation optional	
Power supply (90-264VAC)	PSU-H-LED/ PSU-H-FDA/ PSU-SR PSU-H-OEM /PSU-SR-DC12V (OEM)/ PSU-SR-OEM	
Expected lifetime (hours)	10000	
Warranty	1 year	

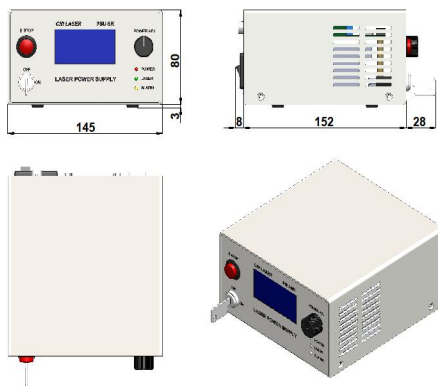
**Note: The laser head needs to be used on a heat sink with good heat dissipation.**



LASER HEAD	LASER HEAD (MGL-U-594-OEM)
<p>142.5 (L)×60(W) ×50(H) mm<sup>3</sup>, 1.0 kg</p>	<p>158 (L)×60(W) ×50(H) mm<sup>3</sup>, 1.0 kg</p>
POWER SUPPLY (PSU-H-LED)	POWER SUPPLY (PSU-H-FDA)
<p>277 (L) ×145(W) ×106 (H) mm<sup>3</sup>, 2.6 kg</p>	<p>275(L) ×145(W) ×104(H) mm<sup>3</sup>, 2.3 kg</p>

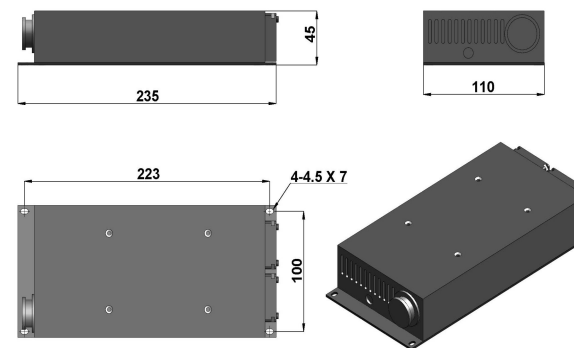


POWER SUPPLY (PSU-SR)



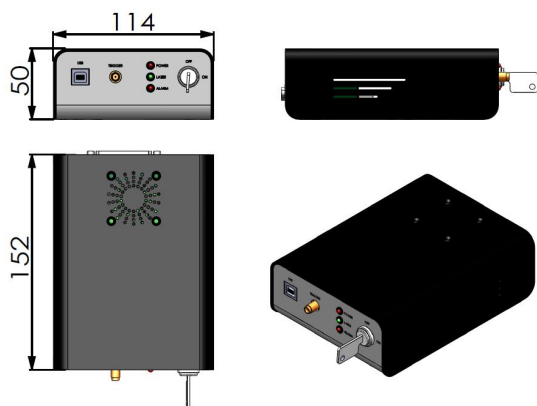
188(L) × 145(W) × 83(H) mm<sup>3</sup>, 1.2kg

POWER SUPPLY (PSU-H-OEM)



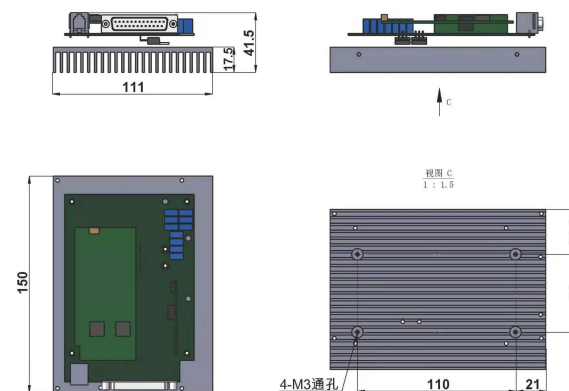
235(L) × 110(W) × 45(H) mm<sup>3</sup>, 1.1kg

POWER SUPPLY (PSU-SR-DC12V)



152(L) × 114(W) × 50(H) mm<sup>3</sup>, 0.5kg

POWER SUPPLY (PSU-SR-OEM)



150(L) × 111(W) × 41.5(H) mm<sup>3</sup>, 0.8kg