



MxL-U 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		MBL-U-473		MGL-U-515		MGL-U-532	
Wavelength (nm)	457±1		473±1		515±1		532±1	
Operating mode	CW							
Output power (mW)	1-200	200-500	50-200	200-300	1-100	1- 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%,<1%	<3%,<2%	
Transverse mode	TEM ₀₀				Near TEM ₀₀		TEM ₀₀	
M ² factor	<1.5		<1.2		<2.0		<1.2	
Beam diameter at the aperture (1/e ² , 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							
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	MGL-U-556	MGL-U-561		MGL-U-577	
Wavelength (nm)	543±1	556±1	561±1		577±2	
Operating mode	CW					
Output power (mW)	1-200	1-200	50-100	100-300	1-100	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 ₀₀					
M ² factor	<1.2				<1.5	
Beam diameter at the aperture (1/e ² , 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					
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	MGL-U-588	MGL-U-589	MGL-U-594	
Wavelength (nm)	585±1	588±1	589±1	594±1	
Operating mode	CW				
Output power (mW)	1-50	1-200	1-200	1-100	100-200
Power stability (rms, over 4 hours)	<5%, <3%, <2%	<3%, <2%, <1%	<3%, <2%, <1%	<3%, <2%	<5%, <3%, <2%
Transverse mode	Near TEM ₀₀	TEM ₀₀			
M ² factor	<2.0	<1.2			
Beam diameter at the aperture (1/e ² , 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				
Expected lifetime (hours)	10000				
Warranty	1 year				

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

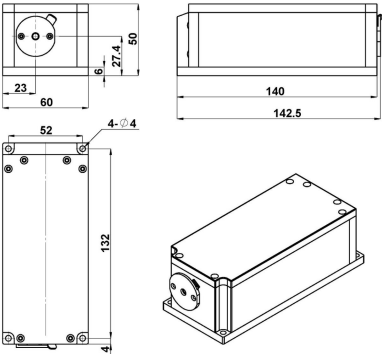
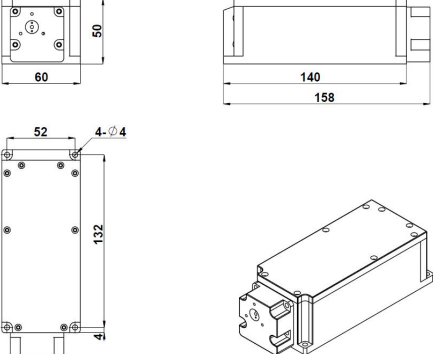
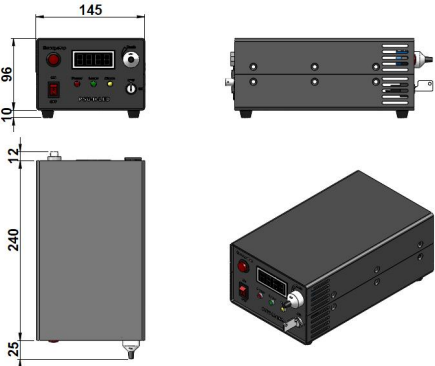
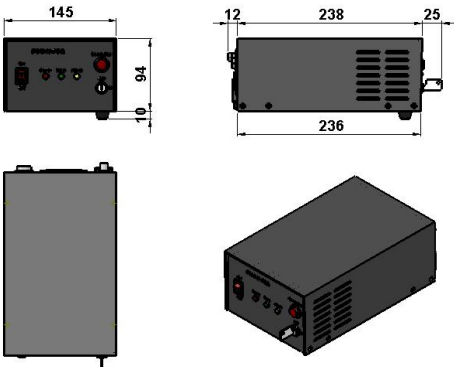
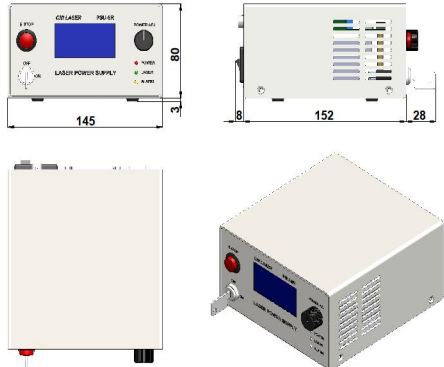


SPECIFICATIONS

Part number	MRL-U-671	
Wavelength (nm)	671±1	
Operating mode	CW	
Output power (mW)	1-300	300-500
Power stability (rms, over 4 hours)	<3%, <2%, <1%	<3%, <2%
Transverse mode	TEM ₀₀	
M ² factor	<1.2	
Beam diameter at the aperture (1/e ² , 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	
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)	POWER SUPPLY (PSU-H-LED)
 <p>142.5 (L) × 60 (W) × 50 (H) mm³, 1.0 kg</p>	 <p>158 (L) × 60 (W) × 50 (H) mm³, 1.0 kg</p>	 <p>277 (L) × 145 (W) × 106 (H) mm³, 2.6 kg</p>
POWER SUPPLY (PSU-H-FDA)	POWER SUPPLY (PSU-SR)	
 <p>275(L) × 145(W) × 104(H) mm³, 2.3 kg</p>	 <p>188(L) × 145(W) × 83(H) mm³, 1.2kg</p>	