



MGL-III-500.8/1~2mW

**LD PUMPED ALL-SOLID-STATE
CYAN LASER AT 500.8nm**

All solid state laser at 500.8nm is made features of ultra compact, long lifetime, low cost and easy operating, which is used in scientific experiment, optical sensor, measurement, instrument, communication, spectrum analysis, etc.



SPECIFICATIONS

Wavelength (nm)	500.8 ± 1		
Output power (mW)	>1, 2		
Transverse mode	Near TEM ₀₀		
Operating mode	CW		
Power stability (rms, over 4 hours)	<10%		
Warm-up time (minutes)	<10		
M ² factor	<1.2		
Beam divergence, full angle (mrad)	<1.5		
Beam diameter at 1/e ² (mm)	~1.2		
Beam height from base plate (mm)	24.8		
Polarization ratio	>50:1		
Pointing stability after warm-up (mrad)	<0.05		
Operating temperature (°C)	10~35		
Power supply (90-264VAC or 5VDC)	PSU-III-LED	PSU-III-FDA	PSU-III-OEM
Expected lifetime (hours)	10000		
Warranty	1 year		



MxL-III-500.8	PSU-III-LED	PSU-III-FDA	PSU-III-OEM
<p>140.8(L)×73(W)×46.2(H) mm³, 0.6kg</p>	<p>153 (L) ×155(W) ×92 (H) mm³, 1.5kg</p>	<p>133 (L) ×130(W) ×65 (H) mm³, 1.2kg</p>	<p>100 (L) ×62(W) ×56 (H) mm³, 0.2kg</p>

MDL-III-510/1~30mW

**GREEN LASER MODULE
AT 510 nm**

Green laser module at 510 nm is made features of ultra compact, long lifetime, and easy operating, which can be widely used in biological, medical, laser pumping, scientific research, etc.



SPECIFICATIONS

Wavelength (nm)	510±5		
Output power (mW)	>1, 2, 3, ..., 30		
Transverse mode	Near TEM ₀₀		
Operating mode	CW		
Power stability (rms, over 4 hours)	<1%, <3%, <5%		
Warm-up time (minutes)	<5		
Beam divergence, full angle (mrad)	1.0		
Beam diameter at the aperture (mm)	3.0		
Beam height from base plate (mm)	24.8		
Pointing stability after warm-up (mrad)	<0.05		
Operating temperature (°C)	10~35		
Power supply (90-264VAC)	PSU-III-LED	PSU-III-FDA	PSU-III-OEM
Expected lifetime (hours)	10000		
Warranty period	1 year		



MxL-III-510	PSU-III-LED	PSU-III-FDA	PSU-III-OEM
<p>139(L)×73(W)×46.2(H) mm³, 0.6kg</p>	<p>153 (L) ×155(W) ×92 (H) mm³, 1.5kg</p>	<p>133 (L) ×130(W) ×65 (H) mm³, 1.2kg</p>	<p>100 (L) ×62(W) ×56 (H) mm³, 0.2kg</p>

MGL-III-514.5/1~20mW

SPECIFICATIONS

GREEN LASER MODULE AT 514.5 nm

Green laser module at 514.5 nm is made features of ultra compact, long lifetime, and easy operating, which may be the replacement for Argon laser and it is widely used in biological, medical, laser pumping, scientific research, etc.



Wavelength (nm)	514.5±1	
Output power (mW)	>1, 2, 3, ...,20	
Transverse mode	Near TEM ₀₀	
Operating mode	CW	
Power stability (rms, over 4 hours)	<1%, <3%, <5%	
Spectral linewidth (nm)	~0.5	
Coherent length (cm)	>20	
Warm-up time (minutes)	<5	
Beam divergence, full angle (mrad)	1.0	
Beam diameter at 1/e ² (mm)	~1.2	
Beam height from base plate (mm)	24.8	
Pointing stability after warm-up (mrad)	<0.05	
Operating temperature (°C)	10~35	
Power supply (90-264VAC)	PSU-III-LED	PSU-III-FDA
Expected lifetime (hours)	10000	
Warranty period	1 year	



MxL-III-514.5	PSU-III-LED	PSU-III-FDA
<p>139(L)×73(W)×46.2(H) mm³, 0.6kg</p>	<p>153 (L) ×155(W) ×92 (H) mm³, 1.5kg</p>	<p>133 (L) ×130(W) ×65 (H) mm³, 1.2kg</p>

MGL-F-515/1~100mW

LD PUMPED ALL-SOLID-STATE GREEN LASER

All solid state 515 nm green laser is made features of ultra compact, long lifetime, low cost and easy operating, which is widely used in scientific experiment, laser fluorescence, etc.



SPECIFICATIONS

Wavelength (nm)	515±1		
Output power (mW)	>1, 3, 5, ..., 100		
Transverse mode	Near TEM ₀₀		
Operating mode	CW		
Power stability (rms, over 4 hours)	<10%		
Warm-up time (minutes)	<10		
M ² factor	<2.0		
Beam divergence, full angle (mrad)	<2.0		
Beam diameter at the aperture (mm)	~3.0		
Beam height from base plate (mm)	45		
Polarization ratio	>100:1		
Pointing stability after warm-up (mrad)	<0.05		
Operating temperature (°C)	10~35		
Power supply (80-264VAC)	PSU-H-LED	PSU-H-FDA	PSU-H-OEM
Expected lifetime (hours)	10000		
Warranty period	1 year		



MGL-F-515	PSU-H-LED	PSU-H-FDA	PSU-H-OEM
<p>209(L)×88(W)×74(H) mm³, 1.6 kg</p>	<p>268 (L) ×145(W) ×106 (H) mm³, 2.6 kg</p>	<p>238 (L) ×146(W) ×102 (H) mm³, 2.3 kg</p>	<p>238 (L) ×146(W) ×94 (H) mm³, 2.2 kg</p>

MDL-III-520L/1~50mW

**GREEN LASER MODULE
AT 520 nm**

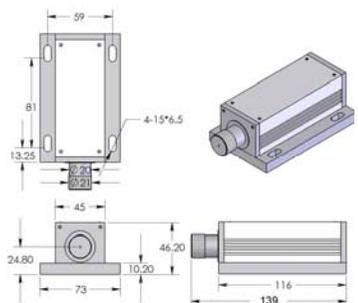
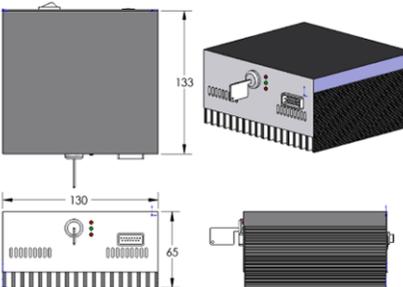
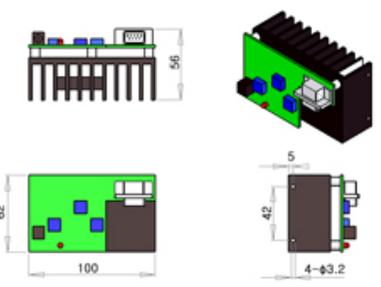
Green laser module at 520 nm is made features of ultra compact, long lifetime, and easy operating, which can be widely used in laser projection, laser shows, biomedical applications, holography, metrology, etc.



SPECIFICATIONS

Wavelength (nm)	520±5		
Output power (mW)	>1, 2, 3, ..., 50		
Transverse mode	Near TEM ₀₀		
Operating mode	CW		
Power stability (rms, over 4 hours)	<1%, <3%, <5%		
Warm-up time (minutes)	<5		
Beam divergence, full angle (mrad)	1.0		
Beam diameter at the aperture (mm)	3.0		
Beam height from base plate (mm)	24.8		
Pointing stability after warm-up (mrad)	<0.05		
Operating temperature (°C)	10~35		
Power supply (90-264VAC)	PSU-III-LED	PSU-III-FDA	PSU-III-OEM
Expected lifetime (hours)	10000		
Warranty period	1 year		



MxL-III-520	PSU-III-LED	PSU-III-FDA	PSU-III-OEM
 139(L)×73(W)×46.2(H) mm ³ , 0.6kg	 153 (L) ×155(W) ×92 (H) mm ³ , 1.5kg	 133 (L) ×130(W) ×65 (H) mm ³ , 1.2kg	 100 (L) ×62(W) ×56 (H) mm ³ , 0.2kg
			



MGL-III-523.5/1~100mW

LD PUMPED ALL-SOLID-STATE GREEN LASER AT 523.5nm

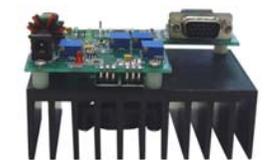
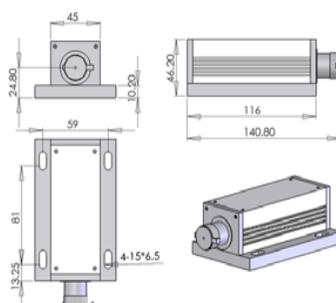
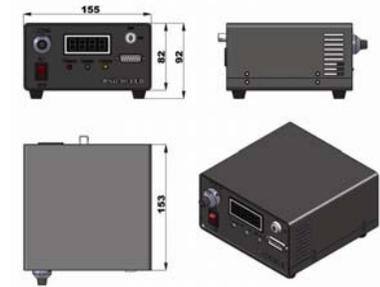
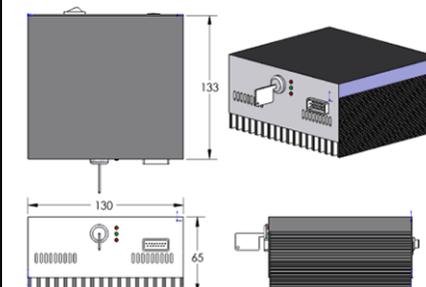
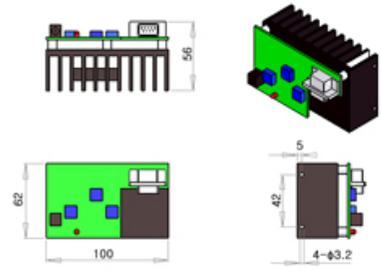
All solid state laser at 523.5nm is made features of ultra compact, long lifetime, low cost and easy operating, which is used in scientific experiment, optical sensor, measurement, instrument, communication, spectrum analysis, etc.



SPECIFICATIONS

Wavelength (nm)	523.5 ± 1		
Output power (mW)	>1, 5, 10, 20, ... , 100		
Transverse mode	Near TEM ₀₀		
Operating mode	CW		
Power stability (rms, over 4 hours)	<5%, <10%		
Warm-up time (minutes)	<10		
M ² factor	<1.2		
Beam divergence, full angle (mrad)	<1.5		
Beam diameter at 1/e ² (mm)	~1.2		
Beam height from base plate (mm)	24.8		
Polarization ratio	>100:1 (0 or 90 degree)		
Pointing stability after warm-up (mrad)	<0.05		
Operating temperature (°C)	10~35		
Power supply (90-264VAC or 5VDC)	PSU-III-LED	PSU-III-FDA	PSU-III-OEM
Expected lifetime (hours)	10000		
Warranty	1 year		



MxL-III-523.5	PSU-III-LED	PSU-III-FDA	PSU-III-OEM
 140.8(L)×73(W)×46.2(H) mm ³ , 0.6kg	 153 (L) ×155(W) ×92 (H) mm ³ , 1.5kg	 133 (L) ×130(W) ×65 (H) mm ³ , 1.2kg	 100 (L) ×62(W) ×56 (H) mm ³ , 0.2kg
			



MLL-III-543/1~100mW

**LOW NOISE GREEN LASER
AT 543 nm**

Low noise green laser at 543 nm is made features of ultra compact, long lifetime, low cost and easy operating, which is used in scientific experiment, optical sensor, measurement, instrument, communication, spectrum analysis, etc.



SPECIFICATIONS

Wavelength (nm)	543 ± 1		
Output power (mW)	>1, 5, 10, 20, ... , 100		
Transverse mode	TEM ₀₀		
Operating mode	CW		
Power stability (rms, over 4 hours)	<1%, <3%, <5%		
Noise of amplitude (rms, 20Hz~20MHz)	<1%		
Warm-up time (minutes)	<10		
M ² factor	<1.2		
Beam divergence, full angle (mrad)	<1.5		
Beam diameter at 1/e ² (mm)	~1.2		
Beam height from base plate (mm)	24.8		
Polarization ratio	>100:1 (0 or 90 degree)		
Pointing stability after warm-up (mrad)	<0.05		
Operating temperature (°C)	10~35		
Power supply (90-264VAC or 5VDC)	PSU-III-LED	PSU-III-FDA	PSU-III-OEM
Expected lifetime (hours)	10000		
Warranty	1 year		



MxL-III-543	PSU-III-LED	PSU-III-FDA	PSU-III-OEM
<p>140.8(L)×73(W)×46.2(H) mm³, 0.6kg</p>	<p>153 (L) ×155(W) ×92 (H) mm³, 1.5kg</p>	<p>133 (L) ×130(W) ×65 (H) mm³, 1.2kg</p>	<p>100 (L) ×62(W) ×56 (H) mm³, 0.2kg</p>

MSL-FN-556/1~500mW

**SINGLE LONGITUDINAL MODE
YELLOW LASER at 556 nm**

All solid state single longitudinal mode yellow laser at 556 nm is made features of ultra compact, long lifetime 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)	556±1
Output power (mW)	>1, 5, 10, ..., 500
Transverse mode	TEM ₀₀
Longitudinal mode	Single
Operating mode	CW
Power stability (rms, over 4 hours)	<1%, <3%, <5%
Warm-up time (minutes)	<10
M ² factor	<1.2
Beam divergence, full angle (mrad)	<1.5
Beam diameter at the aperture (mm)	~2.0
Beam height from base plate (mm)	27.4
Spectral linewidth (nm)	<0.00001
Polarization ratio	>100:1, Vertical ± 5 degree (Horizontal degree)
Pointing stability after warm-up (mrad)	<0.05
Noise of amplitude (rms, 20Hz~20MHz)	<0.5%
Coherent length (m)	>50
Operating temperature (°C)	15~35
Power supply (90-264VAC or 5V DC)	PSU-H-FDA
Modulation	Modulation isn't available.
Expected lifetime (hours)	10000
Warranty period	1 year



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

MxL-FN-556	Dimension	PSU-H-FDA	Dimension
<p>197(L)×70(W) ×50(H), 2.0 kg</p>		<p>238 (L) ×146(W) ×102 (H) mm³, 2.3 kg</p>	

MSL-FN-561/1~80mW

**SINGLE LONGITUDINAL MODE
YELLOW LASER at 561 nm**

All solid state single longitudinal mode yellow laser at 561 nm is made features of ultra compact, long lifetime 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)	561±1
Output power (mW)	>1, 5, 10, ..., 80
Transverse mode	TEM ₀₀
Longitudinal mode	Single
Operating mode	CW
Power stability (rms, over 4 hours)	<1%, <3%, <5%
Warm-up time (minutes)	<10
M ² factor	<1.2
Beam divergence, full angle (mrad)	<1.2
Beam diameter at the aperture (mm)	~2.0
Beam height from base plate (mm)	27.4
Spectral linewidth (nm)	<0.00001
Polarization ratio	>100:1, Vertical ± 5 degree (Horizontal degree)
Pointing stability after warm-up (mrad)	<0.05
Noise of amplitude (rms, 20Hz~20MHz)	<0.5%
Coherent length (m)	>50
Operating temperature (°C)	15~35
Power supply (90-264VAC or 5V DC)	PSU-H-FDA
Modulation	Modulation isn't available.
Expected lifetime (hours)	10000
Warranty period	1 year



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

MxL-FN-561	Dimension	PSU-H-FDA	Dimension
<p>197(L)×70(W) ×50(H), 2.0 kg</p>		<p>238 (L) ×146(W) ×102 (H) mm³, 2.3 kg</p>	

MSL-F-589/1~150mW

**SINGLE LONGITUDINAL MODE
YELLOW LASER AT 589 nm**

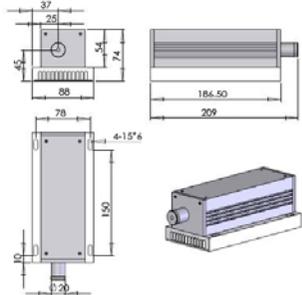
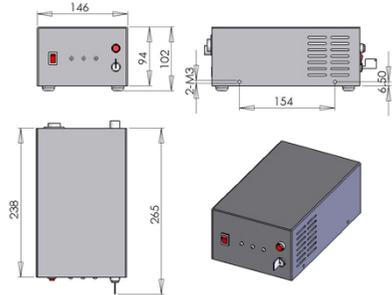
All solid state single longitudinal mode yellow laser at 589 nm is made features of ultra compact, long lifetime, low cost and easy operating, which is used in DNA sequencing, flow cytometry, cell sorting, optical instrument, spectrum analysis, interference, measurement, holography, physics experiment, etc.



SPECIFICATIONS

Wavelength (nm)	589±1
Output power (mW)	1,10,20,30,.....150
Transverse mode	Near TEM ₀₀
Longitude mode	Single
Operating mode	CW
Power Stability (rms,over 4 hours)	<3%,<5%,<10%
Warm-up Time (minutes)	<10
M ² factor	<2.0
Beam divergence,full angle (mrad)	<2.0
Beam Diameter at the aperture (mm)	~3.0
Beam height from base plate (mm)	45
Spectral linewidth (nm)	< 0.00001
Pointing stability after warm-up (mrad)	<0.05
Noise of amplitude (rms,1~20MHz)	<0.5%
Coherence length (m)	>50
Polarization ratio	> 100:1
Operating temperature(°C)	15~35
Power supply (100-240VAC)	PSU-H-FDA
Modulation	Modulation isn't available.
Expected lifetime (hours)	10000
Warranty	1 year



MxL-F-589	Dimension	PSU-H-FDA	Dimension
 <p>209(L)×88(W)×74(H) mm³, 1.6 kg</p>		 <p>238 (L) ×146(W) ×102 (H) mm³, 2.3 kg</p>	



MLL-III-593.5/1~30mW

LOW NOISE ORANGE LASER AT 593.5nm

Low noise orange laser at 593.5nm is made features of ultra compact, long lifetime, low cost and easy operating, which is used in scientific experiment, optical sensor, measurement, instrument, communication, spectrum analysis, etc.



SPECIFICATIONS

Wavelength (nm)	593.5 ± 1		
Output power (mW)	>1, 5, 10, ..., 30		
Transverse mode	TEM ₀₀		
Operating mode	CW		
Power stability (rms, over 4 hours)	<3%, <5%		
Warm-up time (minutes)	<10		
M ² factor	<1.5		
Beam divergence, full angle (mrad)	<1.5		
Beam diameter at 1/e ² (mm)	~1.2		
Beam height from base plate (mm)	24.8		
Polarization ratio	>100:1 (0 or 90 degree)		
Noise of amplitude (rms, 20Hz~20MHz)	<2%, 3%		
Pointing stability after warm-up (mrad)	<0.05		
Operating temperature (°C)	10~35		
Power supply (90-264VAC or 5VDC)	PSU-III-LED	PSU-III-FDA	PSU-III-OEM
Expected lifetime (hours)	10000		
Warranty	1 year		



MxL-III-593.5	PSU-III-LED	PSU-III-FDA	PSU-III-OEM
<p>140.8(L)×73(W)×46.2(H) mm³, 0.6kg</p>	<p>153 (L) ×155(W) ×92 (H) mm³, 1.5kg</p>	<p>133 (L) ×130(W) ×65 (H) mm³, 1.2kg</p>	<p>100 (L) ×62(W) ×56 (H) mm³, 0.2kg</p>