

# MMG Specifications

## (Mechanical specifications)

Weight with bracket and power supply:	450 grams
Length ( without driver ):	7.62 cm
Diameter ( without driver ):	1.91 cm
Housing and driver material:	Aluminium
Bracket material ( MBN03 ):	Aluminium and stainless

## (Optical specifications)

Output power:	1, 5 and 10 mW
Wavelength:	532 nm
Intensity distribution:	Non-gaussian
Fan angles:	20, 60° or 90°
Bore sighting:	<1 mrad

## (Environmental specifications)

Operating temperature:	50°F to 95°F / 10°C to 35°C <b>Maximum</b> <b>(Protect the casing of the laser against sunrays)</b>
Over and under temperature protection:	Integrated automatic system
Wavelength drift:	0.25nm / °C typical
Warm up time:	10 minutes
Automatic shut off after 9 hours:	Integrated automatic system

## (Electrical specifications)

Primary voltage:	120 VAC 60hz wall mount
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## (Other specifications)

Warranty:	Lifetime warranty on casing and mounting bracket 24 months warranty on electronic components
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## Optional

9 to 24 Vdc, 220 to 550V or with special connector for OEM applications

### Laser and eyes safety

Laser products manufactured by FP Industries comply with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 65, dated July 26, 2001.

**CAUTION** – Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Always use caution when working with or around lasers and wear appropriate eye protection.

All of our products fall into one of the following classes:

#### Class II – Caution

Valid a laser light of lower than 1.0 mW. Considered eye-safe, normal exposure to this type of laser will not cause permanent damage to the retina. When exposed to this level of laser light, the blinking reflex of the human eye is fast enough to avoid any damage. A Class II safety rating is considered eye safe. But care for not to look directly into the beam for extended periods of time. (A Class II – rated laser product use the red label on the shipping box with instructions of assembly. A warning label is on the front of the laser product, according to the laser and wavelength).



#### Class IIIa – Danger

Valid a laser light between 1.0 and 5.0 mW. Considered eye-safe with caution, but may present a greater hazard if viewed using collecting optics. Focusing of this light into the eye could cause eye damage. A warning label type is affixed to each laser product, according to its class and wavelength. For the user safety and to avoid risks of eye injury, you should position the laser in such a way that the laser beam does not cross the operator's working zone. Appropriate laser warning signs should be placed in the working area to warn workers and visitors of the presence of lasers.

