



MGL-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                                           | MGL-U-532-OEM                                                                 |           | MGL-U-543-OEM                          | MGL-U-556-OEM | MGL-U-561-OEM |             | MGL-U-577-OEM                          |             | MGL-U-585-OEM          |
| Wavelength (nm)                                       | 532±1                                                                         |           | 543±1                                  | 556±1         | 561±1         |             | 577±2                                  |             | 585±1                  |
| Operating mode                                        | CW                                                                            |           |                                        |               |               |             |                                        |             |                        |
| Output power (mW)                                     | 1- 1000                                                                       | 1000-1500 | 1-200                                  | 1-200         | 50-100        | 100-300     | 1-100                                  | 100-500     | 1-50                   |
| Power stability (rms, over 4 hours)                   | <3%,<2%,<1%                                                                   | <3%,<2%   | <3%,<2%,<1%                            | <3%,<2%,<1%   | <3%,<2%,<1%   | <3%,<2%,<1% | <3%,<2%,<1%                            | <3%,<2%,<1% | <3%,<2%                |
| Transverse mode                                       | TEM <sub>00</sub>                                                             |           |                                        |               |               |             |                                        |             | Near TEM <sub>00</sub> |
| M <sup>2</sup> factor                                 | <1.2                                                                          |           |                                        |               |               |             | <1.5                                   |             | <2.0                   |
| Beam diameter at the aperture (1/e <sup>2</sup> , mm) | <1.0                                                                          |           |                                        |               |               |             |                                        |             |                        |
| Beam divergence (mrad)                                | <1.5                                                                          |           |                                        |               |               |             |                                        |             |                        |
| Polarization Ratio                                    | >100:1, Horizontal (Vertical Optional)                                        |           | >100:1, Vertical (Horizontal Optional) |               |               |             | >100:1, Horizontal (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)                            | 10-35                                                                         |           |                                        |               |               |             |                                        |             |                        |
| Modulation optional                                   | TTL on/off, 1Hz-1kHz, 1kHz-10kHz, 10kHz-30kHz; and Analog modulation optional |           |                                        |               |               |             |                                        |             |                        |
| Power supply (90-264VAC)                              | 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.

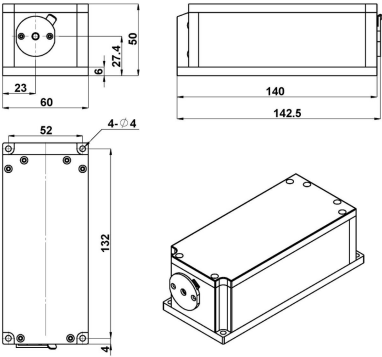
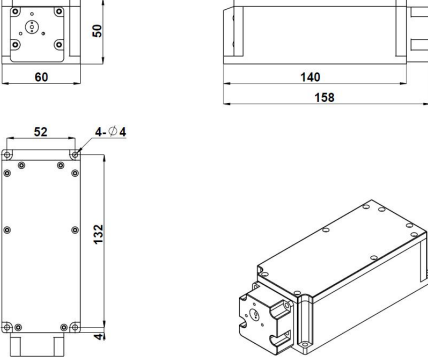
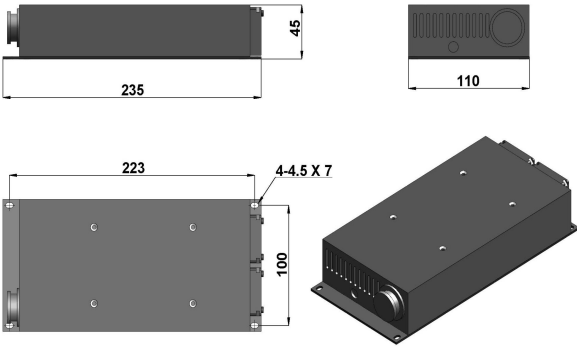
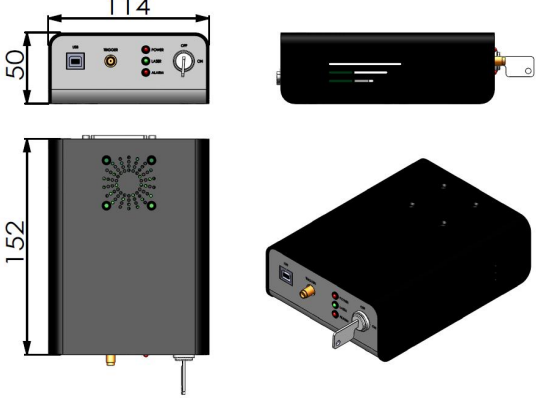
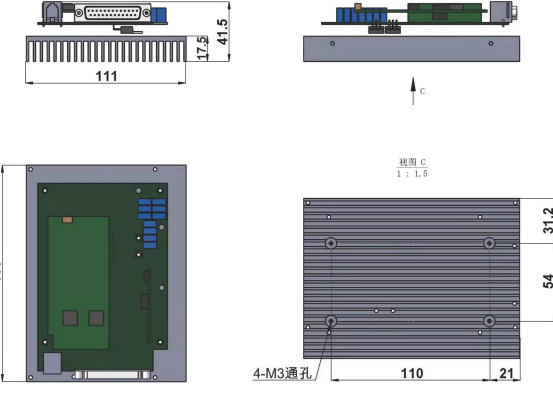


**SPECIFICATIONS**

|                                                       |                                                                               |               |
|-------------------------------------------------------|-------------------------------------------------------------------------------|---------------|
| Part number                                           | MGL-U-588-OEM                                                                 | MGL-U-589-OEM |
| Wavelength (nm)                                       | 588±1                                                                         | 589±1         |
| Operating mode                                        | CW                                                                            |               |
| Output power (mW)                                     | 1-200                                                                         | 1- 200        |
| Power stability (rms, over 4 hours)                   | <3%,<2%,<1%                                                                   | <3%,<2%,<1%   |
| 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 (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)                            | 10-35                                                                         |               |
| Modulation optional                                   | TTL on/off, 1Hz-1kHz, 1kHz-10kHz, 10kHz-30kHz; and Analog modulation optional |               |
| Power supply (90-264VAC)                              | 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)                                                                                                             | POWER SUPPLY (PSU-H-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>   |  <p>235(L)×110(W)×45(H) mm<sup>3</sup>, 1.1kg</p> |
| POWER SUPPLY (PSU-SR-DC12V)                                                                                                           | POWER SUPPLY (PSU-SR-OEM)                                                                                                              |                                                                                                                                      |
|  <p>152(L)×114(W)×50(H) mm<sup>3</sup>, 0.5kg</p>   |  <p>150(L)×111(W)×41.5(H) mm<sup>3</sup>, 0.8kg</p> |                                                                                                                                      |