



# MLL-K-532/ 1-30W



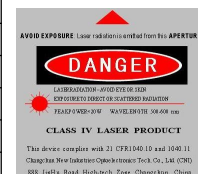
## LOW NOISE GREEN LASER AT 532nm

MLL-K DPSS laser for Ti:Sa pumping  
up to 30W, continuous output, TEM00 beam  
profile, high stabilized and extra low noise.

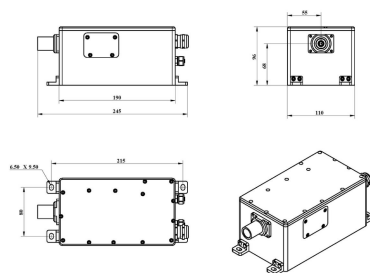


### SPECIFICATIONS

|                                                                 |                                                                    |                           |
|-----------------------------------------------------------------|--------------------------------------------------------------------|---------------------------|
| Model                                                           | MLL-K-532                                                          | MLL-K-532-OEM             |
| Wavelength (nm)                                                 | 532±1                                                              |                           |
| Operating mode                                                  | CW                                                                 |                           |
| Output power (W) <sup>1</sup>                                   | 1-15                                                               | 15-30                     |
| Power Stability (rms, 4 hours ± 3°C)                            | <1%, <0.5%, (<0.3% optional)                                       | <2% <1%, (<0.5% optional) |
| Transverse mode                                                 | TEM00                                                              |                           |
| Spectral linewidth (nm)                                         | <0.1                                                               |                           |
| Noise of amplitude (rms, 20Hz-20MHz)                            | <0.1%                                                              | <0.3%                     |
| M <sup>2</sup>                                                  | <1.1                                                               |                           |
| Beam divergence, full angle (mrad)                              | ~1.0                                                               |                           |
| Beam diameter at the aperture (1/e <sup>2</sup> , mm)           | ~2.0                                                               |                           |
| Warm-up time (minutes)                                          | <10                                                                |                           |
| Pointing Stability (urad) (over 2 hours after warm-up and ±3°C) | <50                                                                |                           |
| Pointing Stability Over Temperature (urad/°C)                   | <20                                                                |                           |
| Polarization ratio                                              | >50:1 (>100:1 optional), Horizontal (Vertical optional)            |                           |
| Beam height from base plate (mm)                                | 68                                                                 | 30                        |
| Cooled method                                                   | Water Cooled                                                       | Conduction                |
| Modulation option                                               | DC-1kHz, 1kHz-10kHz, 10kHz-30kHz optional; TTL and Analog optional |                           |
| Operating temperature (°C)                                      | 10-35                                                              | 25                        |
| Power supply (100-240VAC)                                       | PSU-W-LED                                                          | PSU-AOM                   |
| Expected lifetime (hours)                                       | >10000                                                             |                           |

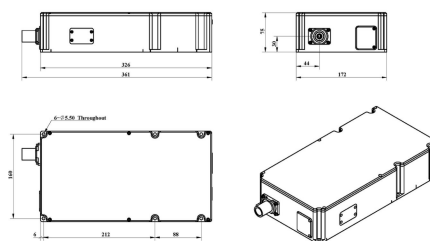


### LASER HEAD (MLL-K-532)



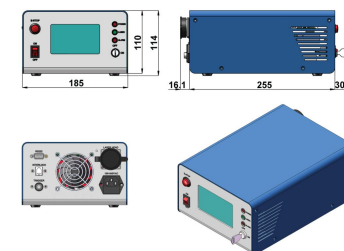
245 (L) × 110 (W) × 96 (H) mm<sup>3</sup>, 4.2 kg

### LASER HEAD (MLL-K-532-OEM)<sup>2</sup>

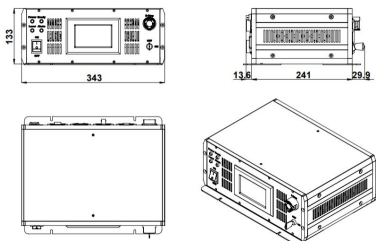
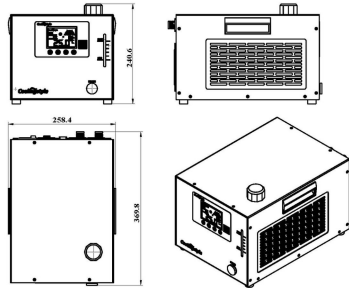
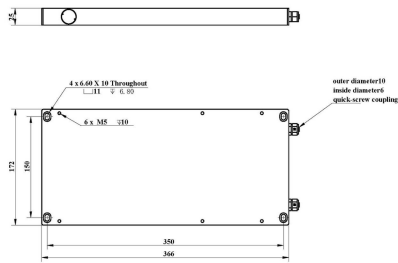


361 (L) × 172 (W) × 75 (H) mm<sup>3</sup>, 12.4 kg

### POWER SUPPLY (PSU-W-LED)



301.5 (L) × 185 (W) × 114 (H) mm<sup>3</sup>, 3.0 kg

| POWER SUPPLY (PSU-AOM)                                                                                                                                                   | WATER CHILLER (WCH-580)                                                                                                                                                         | ACCESSORIES (WATER-COOLED PANELS)                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p style="text-align: center;">343(L) × 284.5 (W) × 133 (H) mm<sup>3</sup>, 9.42kg</p> |  <p style="text-align: center;">369.8 (L) × 258.4 (W) × 240.6 (H) mm<sup>3</sup>, 10.5 kg</p> |  <p style="text-align: center;">366 (L) × 172 (W) × 25(H) mm<sup>3</sup></p> |

- 1 Any power level can be selected in this range.
- 2 The laser head needs to be used on a heat sink with 320 W heat dissipation.