



MPL-S-1064A-HP

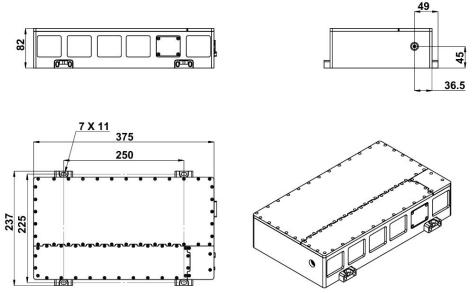
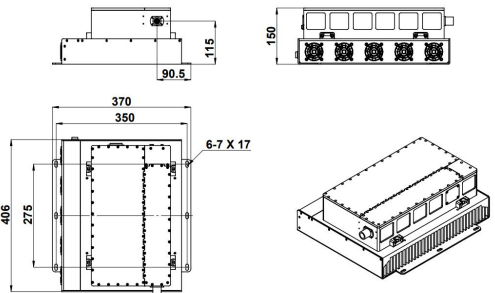
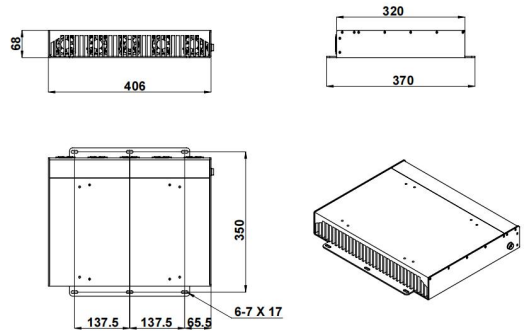
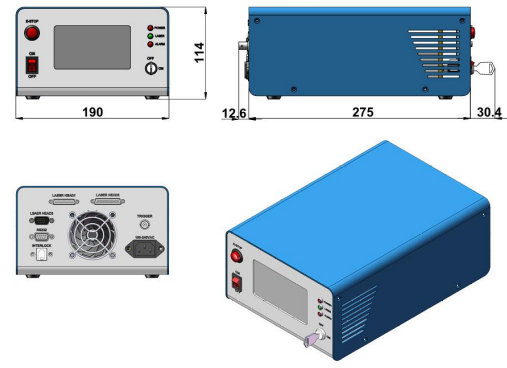
HIGH ENERGY DIODE PUMPED ALL-SOLID-STATE PASSIVELY LASER

All-solid-state passive lasers, which feature high peak power and short pulse duration, are widely used in scientific research, laser micromachining, lidar ranging, environmental monitoring, laser ultrasonic testing, and LIBS (Laser-Induced Breakdown Spectroscopy).



SPECIFICATIONS

|                                     |                   |
|-------------------------------------|-------------------|
| Wavelength (nm)                     | 1064±1            |
| Operating mode                      | Passively         |
| Average power (mW) <sup>1</sup>     | 200-4000          |
| Single pulse energy (μJ)            | 2-40              |
| Pulse duration (ns)                 | ~0.5              |
| Peak power (kW)                     | 4-80              |
| Rep. rate <sup>2</sup>              | 80-120kHz         |
| Power stability (rms, 4 hours ±3°C) | <5%, <3%          |
| Transverse mode                     | TEM <sub>00</sub> |
| Beam diameter at the aperture (mm)  | ~1.5              |
| Beam divergence, full angle (mrad)  | <1.5              |
| Warm-up time (minutes)              | <5                |
| Beam height from base plate (mm)    | 45                |
| Cooled method                       | Fan cooled        |
| Operating temperature (°C)          | 10-35             |
| Power supply (100-240VAC)           | PSU-S-HP          |
| Expected lifetime (hours)           | >10000            |

| LASER HEAD <sup>3</sup>                                                                                                              | LASER HEAD<br>(Fan cooled)                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
|  <p>375(L)×237(W)×82(H) mm<sup>3</sup>, 10.5kg</p>  |  <p>406(L)×370(W)×150(H) mm<sup>3</sup>, 21.0kg</p> |
| HEATSINK (optional TC-HP-FS)                                                                                                         | POWER SUPPLY <sup>4</sup>                                                                                                              |
|  <p>406(L)×370(W)×68(H) mm<sup>3</sup>, 10.5kg</p> |  <p>318(L)×190(W)×114(H) mm<sup>3</sup>, 3.2kg</p> |

- 1 Average power (mW)= Single pulse energy (μJ)\* Rep. rate(kHz)  
 2 The rep.rate is a free running value within the range.  
 3 The laser head needs to be used on a heat sink with good heat dissipation.  
 4 Output power adjustable 10-100%; RS232 control optional.