



MIL-H series (1201-1500nm)



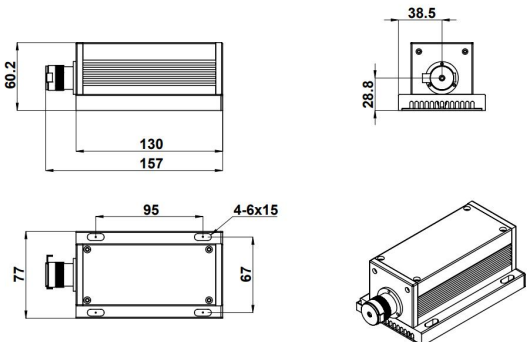
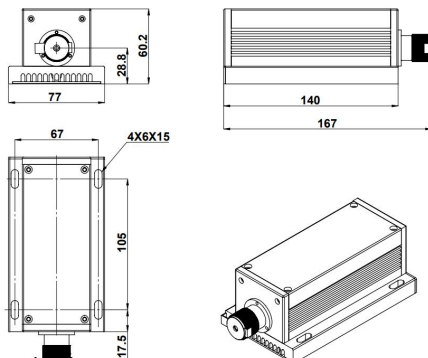
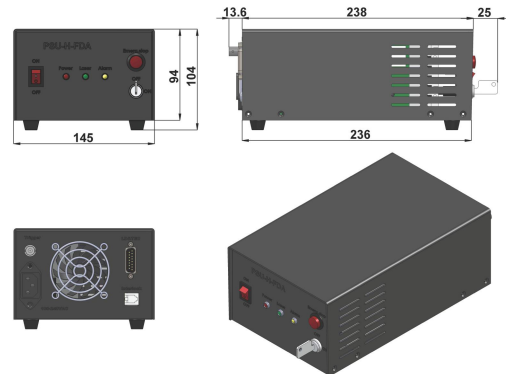
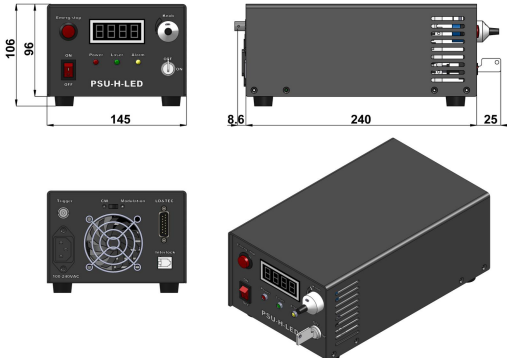
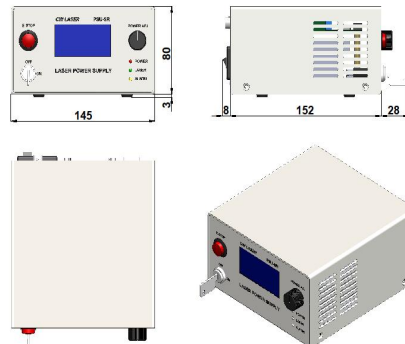
LD PUMPED ALL-SOLID-STATE LASER

The all-solid-state infrared laser is characterized by its ultra-compact design, long lifetime, and ease of operation. It is commonly used in scientific experiments, optical instrumentation, optical sensing, measurement, communication, and spectral analysis.



SPECIFICATIONS

|                                                                 |                                                                    |               |        |        |               |               |
|-----------------------------------------------------------------|--------------------------------------------------------------------|---------------|--------|--------|---------------|---------------|
| Wavelength (nm)                                                 | 1313±1                                                             |               | 1335±1 | 1338±1 | 1342±1        | 1413±1        |
| Operating mode                                                  | CW                                                                 |               |        |        |               |               |
| Output power (mW) <sup>1</sup>                                  | 1-800                                                              | 800-1000      | 1-500  | 1-500  | 1-2000        | 1-300         |
| Power stability (rms, 4 hours ±3°C)                             | <3%, <2%, <1%                                                      | <5%, <3%, <2% |        |        | <3%, <2%, <1% | <5%, <3%, <2% |
| Transverse mode                                                 | TEM <sub>00</sub>                                                  |               |        |        |               |               |
| M <sup>2</sup>                                                  | <1.5                                                               |               |        |        |               |               |
| Beam diameter at the aperture (1/e <sup>2</sup> , mm)           | ~1.5                                                               |               |        |        |               |               |
| Beam divergence (mrad)                                          | <2.0                                                               |               |        |        |               |               |
| Polarization ratio                                              | >100:1, Horizontal (Vertical optional)                             |               |        |        |               |               |
| Warm-up time (minutes)                                          | <5                                                                 |               |        |        |               |               |
| Pointing stability (μrad) (over 2 hours after warm-up and ±3°C) | <50                                                                |               |        |        |               |               |
| Beam height from base plate (mm)                                | 29                                                                 |               |        |        |               |               |
| Operating temperature (°C)                                      | 10-35                                                              |               |        |        |               |               |
| Modulation optional                                             | DC-1kHz, 1kHz-10kHz, 10kHz-30kHz optional; TTL and Analog optional |               |        |        |               |               |
| Power supply (100-240VAC)                                       | PSU-H-FDA/PSU-H-LED/PSU-SR                                         |               |        |        |               |               |
| Expected lifetime (hours)                                       | >10000                                                             |               |        |        |               |               |

| LASER HEAD                                                                                                                                 | LASER HEAD (Power stability <1%)                                                                                                        | POWER SUPPLY (PSU-H-FDA) <sup>2</sup>                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>157(L)×77(W) ×60.2(H) mm<sup>3</sup>, 0.9kg</p>       |  <p>167(L) ×77(W) ×60.2 (H) mm<sup>3</sup>, 1.0kg</p> |  <p>276.6(L) ×145(W) ×103.6(H) mm<sup>3</sup>, 2.3kg</p> |
| POWER SUPPLY (PSU-H-LED) <sup>3</sup>                                                                                                      | POWER SUPPLY (PSU-SR) <sup>3</sup>                                                                                                      |                                                                                                                                             |
|  <p>273.6 (L) ×145(W) ×106 (H) mm<sup>3</sup>, 2.3kg</p> |  <p>188(L) ×145(W) ×83(H) mm<sup>3</sup>, 1.2kg</p>  |                                                                                                                                             |

1 Any power level can be selected in this range.

2 Fixed output power.

3 Output power adjustable 10-100%; RS232 control optional.