

MPL-FN series (200-300nm)



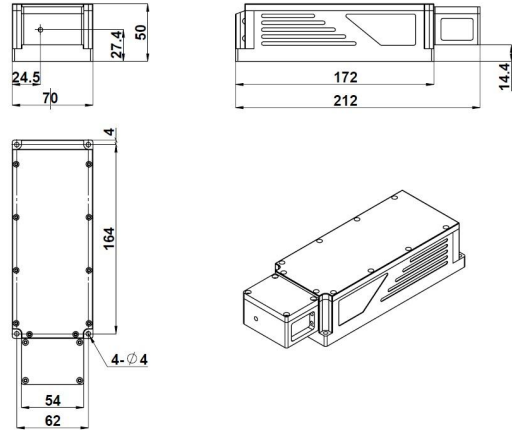
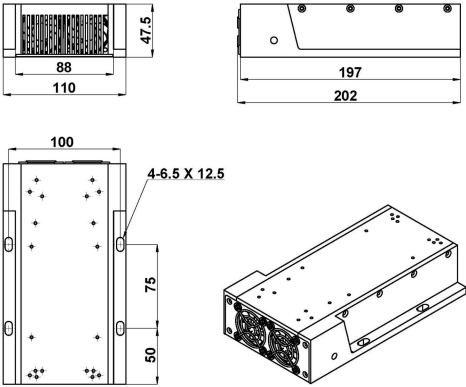
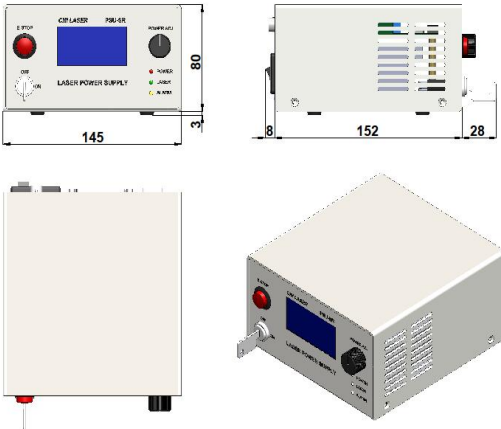
LD PUMPED ALL-SOLID-STATE PASSIVELY LASER

All solid state passively laser is made features of ultra compact, long lifetime, cost-effectiveness and easy operating, which is widely used in curing, micro-electronics, CD carving, laser medical treatment, scientific experiment, etc.



SPECIFICATIONS

|                                       |                  |                        |               |         |
|---------------------------------------|------------------|------------------------|---------------|---------|
| Wavelength (nm)                       |                  | 236±1                  | 266±1         |         |
| Operating mode                        |                  | Passively              |               |         |
| Average power (mW) <sup>1</sup>       |                  | 1-3                    | 1-8           | 1-15    |
| Single pulse energy (μJ) <sup>2</sup> |                  | 1-3                    | 1-8           | 1-5     |
| Pulse duration (ns)                   |                  | ~1.4                   | ~0.6          | ~0.8    |
| Peak power (kW)                       |                  | 0.7-2.1                | 1.7-13.3      | 1.3-6.3 |
| Rep. rate                             | Int <sup>3</sup> | 10Hz-1kHz              | 10Hz-1kHz     | 1-3kHz  |
|                                       | Ext <sup>4</sup> | 10Hz-1kHz              | 10Hz-1kHz     | 1-3kHz  |
| Power stability (rms, 4 hours ±3°C)   |                  | <5%, <3%               | <5%, <3%, <2% |         |
| Transverse mode                       |                  | Near TEM <sub>00</sub> |               |         |
| M <sup>2</sup>                        |                  | <2.0                   |               |         |
| Beam diameter at the aperture (mm)    |                  | ~1.5                   |               |         |
| Beam divergence, full angle (mrad)    |                  | ~6.0                   |               |         |
| Warm-up time (minutes)                |                  | <5                     |               |         |
| Beam height from base plate (mm)      |                  | 27.4                   |               |         |
| Operating temperature (°C)            |                  | 10-35                  |               |         |
| Power supply (100-240VAC)             |                  | PSU-SR                 |               |         |
| Expected lifetime (hours)             |                  | >10000                 |               |         |

| LASER HEAD <sup>5</sup>                                                                                                           | HEATSINK (optional TC-02-FS)                                                                                                           | POWER SUPPLY <sup>6</sup>                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
|  <p>212(L)×70(W)×50(H) mm<sup>3</sup>, 1.6kg</p> |  <p>202(L)×110(W)×47.5(H) mm<sup>3</sup>, 1.25kg</p> |  <p>188(L) ×145(W) ×83(H) mm<sup>3</sup>, 1.2kg</p> |

- 1 Average power (mW)= Single pulse energy (μJ)\* Rep. rate(kHz)
- 2 Any energy level can be selected within this range.
- 3 The frequency is selectable from one or five discrete values within the range.
- 4 External triggered.
- 5 The laser head needs to be used on a heat sink with good heat dissipation.
- 6 Fixed output energy.