

MPL-U-532/20~60uJ

### LD PUMPED ALL-SOLID-STATE Q-SWITCHED LASER

All solid state Q-switched laser at 532nm has the features of high peak power, high repetition rate, and short pulse duration, which is widely used in industry (marking on the diamond or stone), teaching of nonlinear optics, experiments of generating 355nm, or 266nm laser, fiber communication, etc.

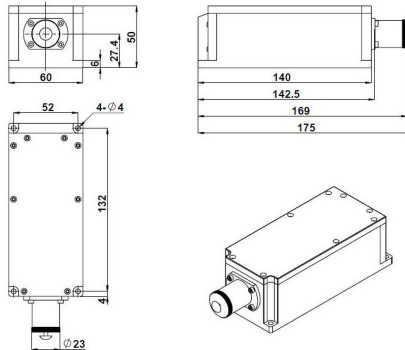
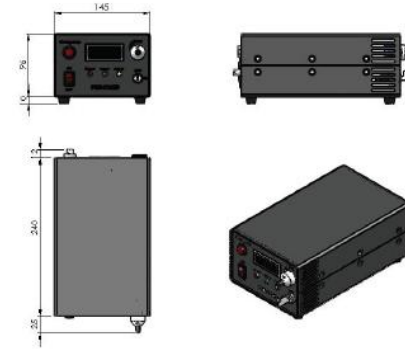
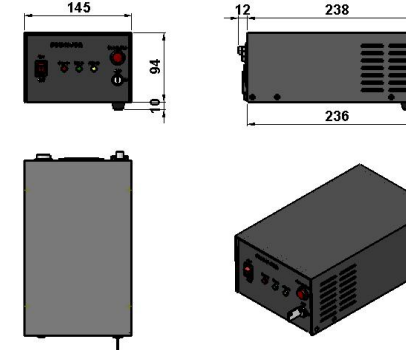


#### SPECIFICATIONS

|                                    |  |   |
|------------------------------------|--|---|
| Central wavelength (nm)            | 532±1  |   |
| Operating mode                     | Q-switched pulsed laser  |   |
| Single pulse energy (μJ)           | 20~60  |   |
| Pulse duration (ns)                | ~1.3ns   | ~4.0ns  |
| Peak power (kW)                    | 15~46  | 5~15  |
| Rep. rate (kHz)                    | FIXED  | Setting 4kHz-6kHz with stable pulse energy, pulse duration and pulse period, other frequencies are optional.            |
|                                    | EXT TRIG   | 4Hz-6kHz by external trigger with stable pulse energy, pulse duration and pulse period, other frequencies are optional. |
|                                    | QCW  | QCW state with one rep. rate between 5k-12kHz.  |
| Average power (mW)                 | Average power (mW) = Single pulse energy (μJ) * Rep. rate (kHz)                              |   |
| Ave power stability (over 4 hours) | <1%, <3%, <5%  |   |
| Transverse mode                    | TEM <sub>00</sub>  |   |
| Warm-up time (minutes)             | <10  |   |
| M <sup>2</sup> factor              | <1.5   |   |
| Beam divergence, full angle (mrad) | <2.0   |   |
| Beam diameter at the aperture (mm) | ~2.0   |   |
| Beam height from base plate (mm)   | 27.4   |   |
| Operating temperature (°C)         | 10~35  |   |
| Power supply (90-264VAC)           | PSU-H-LED/PSU-H-FDA  |   |
| Expected lifetime (hours)          | 10000  |   |
| Warranty period                    | 1 year   |   |
| Remarks                            | UV laser at 266nm or 355nm can be generated by MPL-U-1064 or MPL-U-532 by frequency doubler. |   |



Note: The laser head needs to be used on a heat sink with good heat dissipation.

| MPL-U-532  | PSU-H-LED   | PSU-H-FDA  |
|--|---|--|
|  <p>175(L)×60(W)×50(H) mm<sup>3</sup></p> |  <p>277(L)×145(W)×106(H) mm<sup>3</sup>, 2.6 kg</p> |  <p>275(L)×145(W)×104(H) mm<sup>3</sup>, 2.3 kg</p> |