

MDL-NS-520/1-100mW



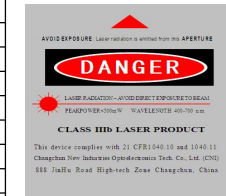
**NANOSECOND PULSED
GREEN DIODE LASER
AT 520nm**

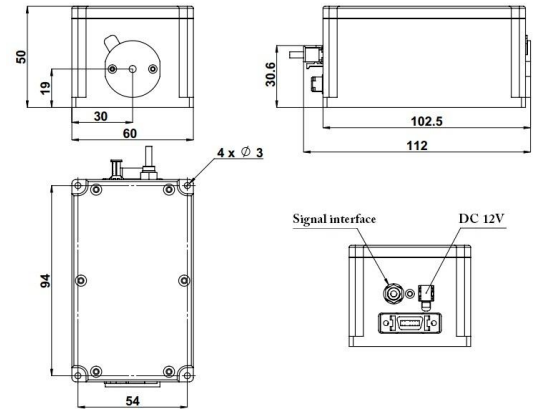
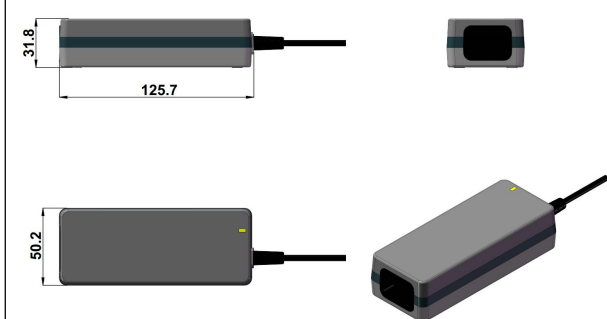
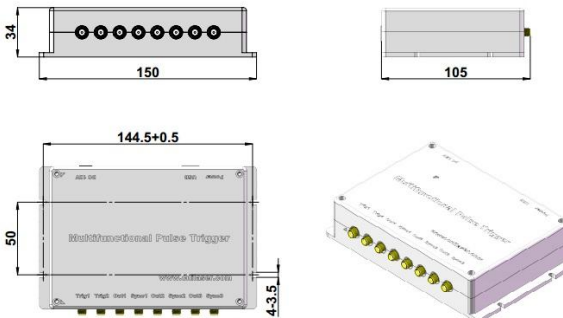
This series laser products with excellent material removal rate, are widely used in microelectronics, material processing, solar energy and medical equipment manufacturing, etc.



SPECIFICATIONS

| | | |
|---|---|-----------|
| Central wavelength (nm) | 520±10 | |
| Operating mode | Pulsed | |
| Peak power (mW) ¹ | 1-50 | 50-100 |
| Power stability (rms, 4 hours ± 3°C) | <2%, <1%, <0.5% | |
| Pulse width (FWHM) | 10ns-10ms | 15ns-10ms |
| Transverse mode | Near TEM ₀₀ | |
| M ² | <1.2 | |
| Beam diameter at the aperture (1/e ² , mm) | ~1.2 | |
| Beam divergence, full angle (mrad) | <1.0 | |
| Polarization ratio | >50:1, (>100:1 optional) Horizontal±5 degree (Vertical optional) | |
| Rep. rate ² | DC-50MHz | DC-40MHz |
| Rise Time (ns) | <3 | <10 |
| Fall Time (ns) | <2 | <4 |
| Modulation Depth (extinction ratio) | >1000000:1 | |
| Warm-up time (minutes) | <5 | |
| Cooled method | Conduction | |
| Beam height from base plate (mm) | 19 | |
| Operating temperature (°C) | 10-35 | |
| Operating voltage (VDC) | 12V/3.34A | |
| Expected lifetime (hours) | >10000 | |



| LASER HEAD (DRIVER Integrated) ³ | POWER SUPPLY (100-240VAC) optional | MULTIFUNCTIONAL PULSE TRIGGER optional |
|---|--|--|
|  <p>112 (L) × 60 (W) × 50 (H) mm³, 0.5kg</p> |  <p>125.7 (L) × 50.2 (W) × 31.8 (H) mm³, 0.3kg</p> |  <p>150 (L) × 105 (W) × 34 (H) mm³, 0.5kg</p> |

1 Any power level can be selected in this range.

2 Both internal and external triggers are acceptable. The internal trigger supports a frequency range of DC-25MHz.

3 RS232 control optional, output power adjustable 10-100% by software.