

FDSS 532-1000

Diode pumped passively Q-switched solid state laser

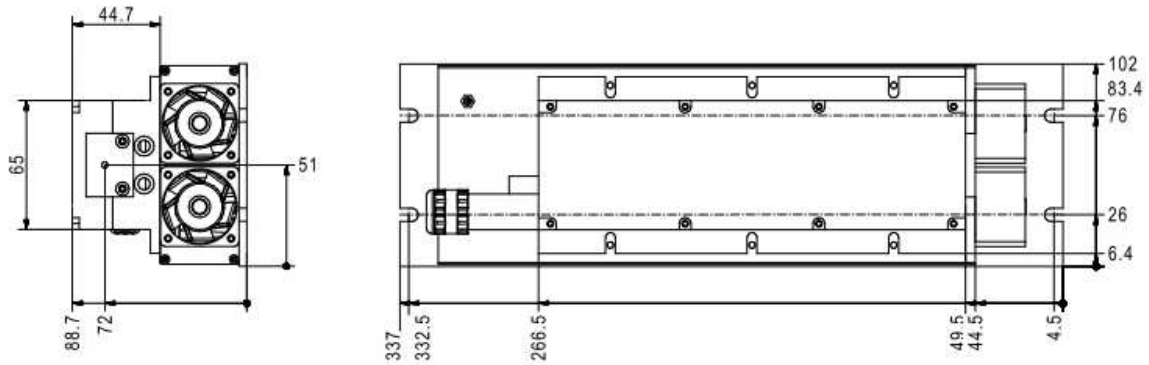
- 532 nm
- single pulse
- < 1.8 ns
- 1 – 80 Hz
- > 1000 µJ



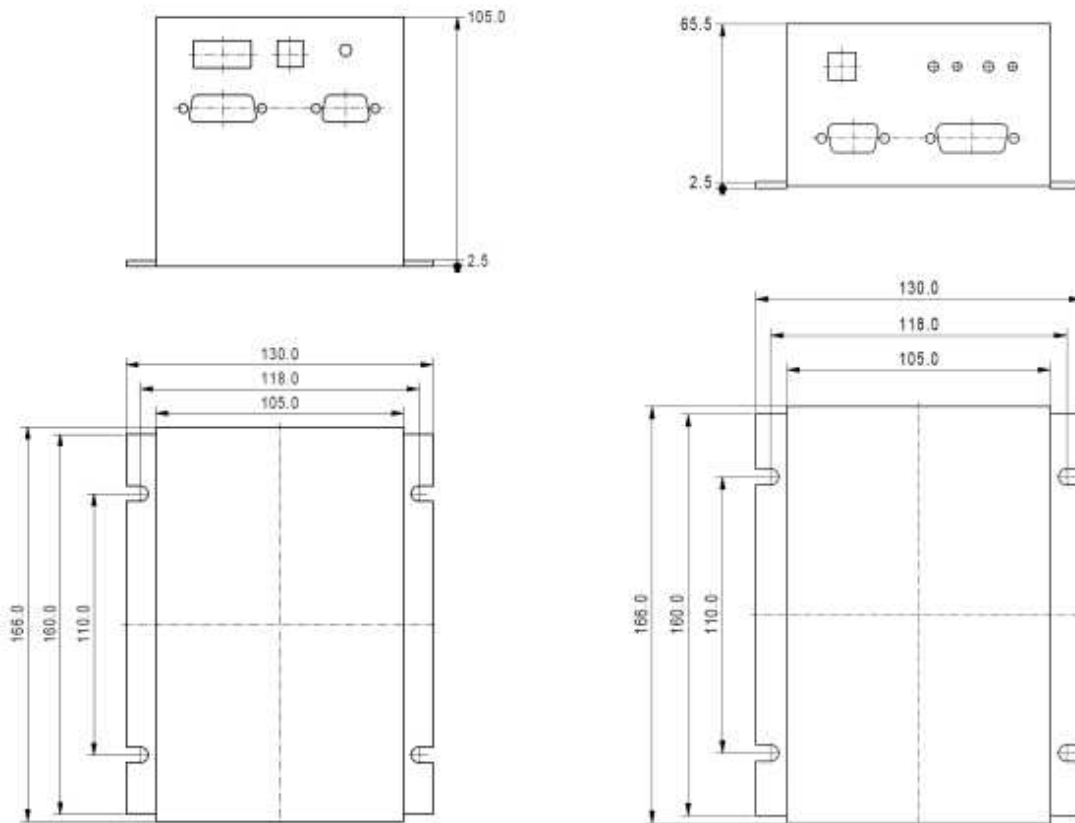
biology · biomedicine · chemistry · analytics

| | | |
|------------------------|----------------------------------------------------------------|----------------------------------------------------------------|
| Optical Data | Wavelength | 532 nm |
| | Spatial Mode | TEM ₀₀ |
| | Beam Divergence (full angle) | < 6.5 mrad |
| | Beam Ellipticity | < 2:1 |
| | Waist Diameter | 500 ± 150 µm (located at about 110mm inside the laser head) |
| | Beam Diameter | 1.0 ± 0.3 mm (at laser exit) |
| | Peak Power | > 500 kW @ 20 Hz |
| | Pulse Energy | > 1000 µJ @ 20 Hz |
| | Pulse Repetition Rate (with external trigger) | 1 - 80 Hz |
| | Pulse Width (FWHM) | < 1.8 ns |
| | Polarization Ratio | > 100:1, vertical |
| | Long term pulse energy stability (6 hrs) | < ± 8 % |
| Laser Classification | 3B / IIIb | |
| Optical Output | Free Beam | |
| Electrical Data | Electrical Power Consumption | < 150 W |
| | Line Voltage | 90 - 265 V AC (50-60 Hz) or 24 V DC |
| Interface | RS 232 (USB on request) | |
| Miscellaneous | Warm-up Time | < 10 min |
| | Operating Temperature | 20 - 40 °C |
| | Laser Head Size | 217 x 65 x 45 mm (core dimensions) |
| Options | SMA-connector for fiber with core diameter ≥ 400 µm | |
| | Synchronization signal output (rise time < 2 ns) | |
| | Manual or electrical shutter | |
| | Manual or electrical driven wavelength switch 532 nm / 1064 nm | |
| | External telescope (e.g. M=5) | |
| | Manual attenuator | |
| | Stand alone system (CDRH compliant) | |

Laser Head and Controller



OEM booster and controller



Laser Safety Labels

The FDSS 532-1000 lasers are class 3B according to IEC 60825-1:2007

