

FQSS 266-50

Diode pumped passively Q-switched solid state laser

- 266 nm
- single pulse
- < 1 ns
- 1 – 100 Hz (up to 1 kHz optional)
- > 60 μJ

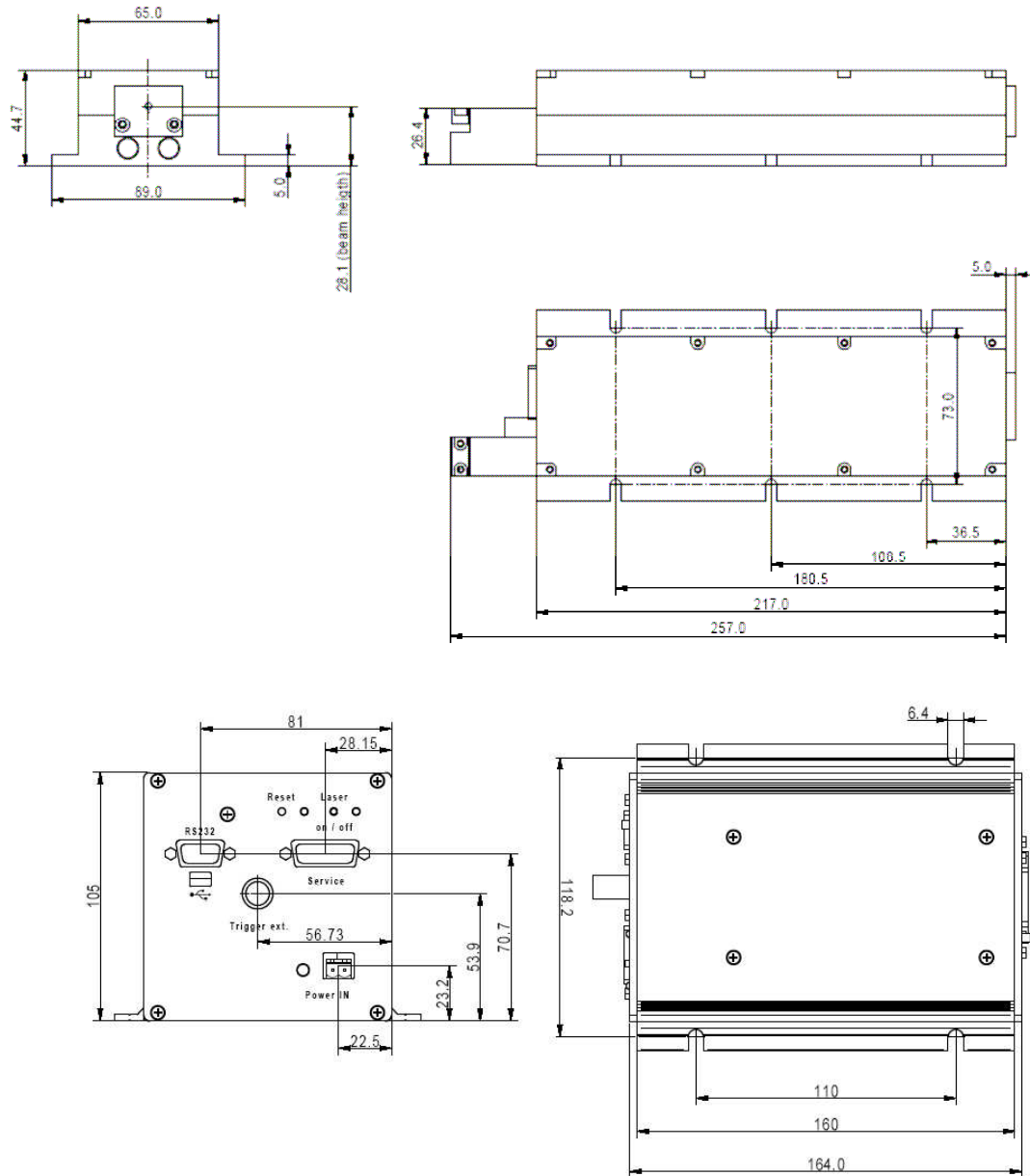


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|--------------------------|---|---|
| Optical Data | Wavelength | 266 nm |
| | Spatial Mode | TEM ₀₀ |
| | M ² | < 1.3 |
| | Beam Divergence (full angle) | < 0.6 ± 0.2 mrad |
| | Beam Ellipticity | < 1.5:1 |
| | Waist Diameter | 500 ± 150 μm (located at about 110 mm inside the laser head) |
| | Beam Diameter | 500 ± 100 μm (at laser exit) |
| | Peak Power | > 60 kW @ 1 - 100 Hz |
| | Pulse Energy | > 60 μJ @ 1 - 100 Hz |
| | Pulse Repetition Rate (with external trigger) | 1 - 100 Hz |
| | Pulse Width (FWHM) | ≤ 1.0 ns |
| | Polarization Ratio | > 100:1, vertical |
| | Long term pulse energy stability (6 hrs) | < ± 3 % |
| | Laser Classification | 4 / IV |
| Residual 532 nm Emission | < 0.5 % | |
| Optical Output | Free Beam | |
| Electrical Data | Electrical Power Consumption | < 70 W |
| | Line Voltage | 90 - 265 V AC (50-60 Hz) or 24 V DC |
| Interface | RS 232, USB | |
| Miscellaneous | Warm-up Time | < 15 min |
| | Operating Temperature | 18 - 38 °C |
| | Laser Head Size | 217 x 65 x 45 mm ³ (core dimensions) |
| Options | Fiber coupling for fiber with core diameter ≥ 100 μm | |
| | Synchronization signal output (rise time < 2 ns) | |
| | Electrical driven shutter | |
| | Upgrade up to 1 kHz repetition rate (Parameters on request) | |

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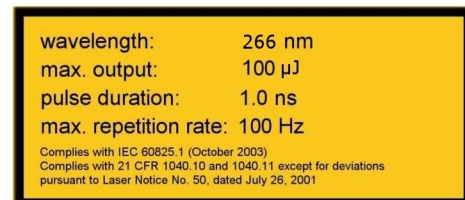
Laser Head and Controller



Front and top view of OEM-laser controller

Laser Safety Labels

The FQSS266-50 lasers are class 4 according to IEC 60825-1.



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