

# MOPA 266-50

Diode pumped passively Q-switched solid state laser

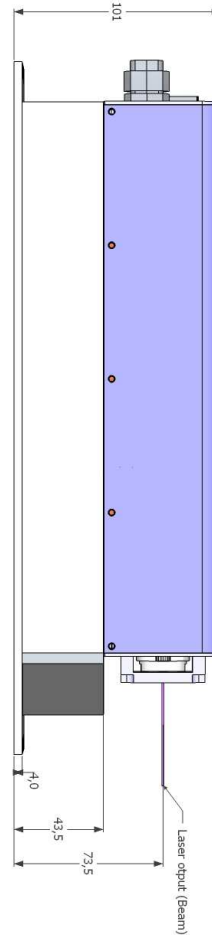
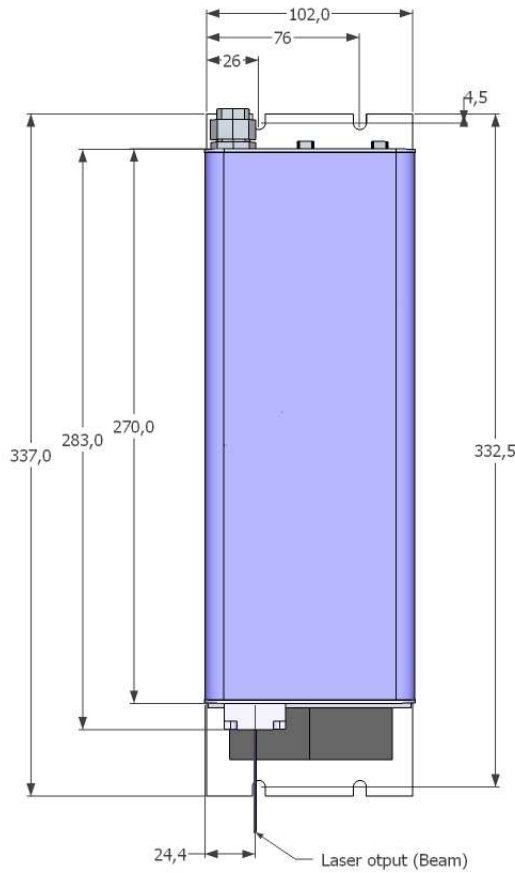
- 266 nm
- Single Pulse
- $\leq 1.0$  ns
- 1 – 1000 Hz
- $> 50$   $\mu$ J
- External / Internal Trigger Mode



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|                        |   |                                  |
|------------------------|---|----------------------------------|
|                        | Wavelength  | 266 nm                           |
|                        | Peak Power  | $> 50$ kW @ 1000 Hz              |
|                        | Pulse Energy  | $> 50$ $\mu$ J @ 1000 Hz         |
|                        | Beam Divergence (full angle)  | $< 2.0$ mrad                     |
|                        | Beam Ellipticity  | $< 2:1$                          |
|                        | Beam Diameter   | $1.0 \pm 0.3$ mm (at laser exit) |
|                        | Spatial Mode  | TEM <sub>00</sub>                |
|                        | Pulse Repetition Rate (with external trigger)                                     | 1 - 1000 Hz                      |
|                        | Pulse Width (FWHM)  | $\leq 1.0$ ns                    |
|                        | Polarization Ratio  | $> 100:1$ , vertical             |
|                        | Pulse Energy Stability (averaged over 8 hrs)                                      | $\pm 3$ %                        |
|                        | Pulse-to-Pulse Energy Stability (over 60 sec)                                     | $\pm 3$ % ( $< 1$ % rms)         |
|                        | Laser Classification  | 4 / IV                           |
| <b>Optical Output</b>  | Free Beam   |                                  |
| <b>Electrical Data</b> | Electrical Power Consumption  | $< 150$ W                        |
|                        | Line Voltage  | 90 - 265 V AC (50-60 Hz)         |
| <b>Interface</b>       | USB   |                                  |
|                        | BNC connector for external triggering (TTL)                                       |                                  |
|                        | SMB connector for 24 V DC output  |                                  |
| <b>Miscellaneous</b>   | Warm-up Time  | $< 10$ min                       |
|                        | Operating Temperature   | 18 - 38 °C                       |
|                        | Laser Head Size   | 101 x 102 x 283 mm (H x W x L)   |
|                        | Stand-Alone Unit Size   | 180 x 236 x 316 mm (H x W x L)   |
| <b>Options</b>         | Multimode fiber coupling  |                                  |
|                        | Synchronization signal output (rise time $< 2$ ns)                                |                                  |
|                        | Electrical or manual wavelength switch (266nm – 532nm) or electrical beam blocker |                                  |
|                        | External telescope (beam expander)  |                                  |

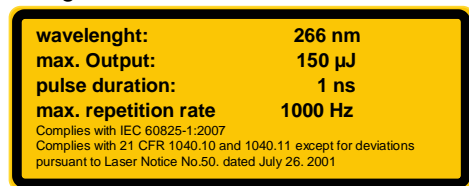
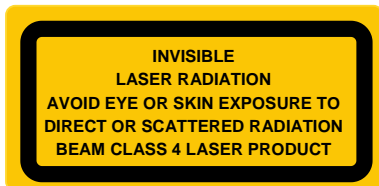
## Laser Head and Controller



Front panel of the Stand-Alone unit  
(width = 236; height = 180; length = 316;  
all dimensions in mm )

## Laser Safety Labels

The MOPA 266-50 lasers are class 4 / IV according to IEC 60825-1:2007



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