

FIBER LASER

# M8-250

en | Data sheet | 1.1.2

- High-end 250 Watt MOPA fiber laser
- Peak pulse powers up to 38 kW
- Beam quality  $M^2 < 1.6$
- Variable adjustable pulse widths
- Low thermal impact

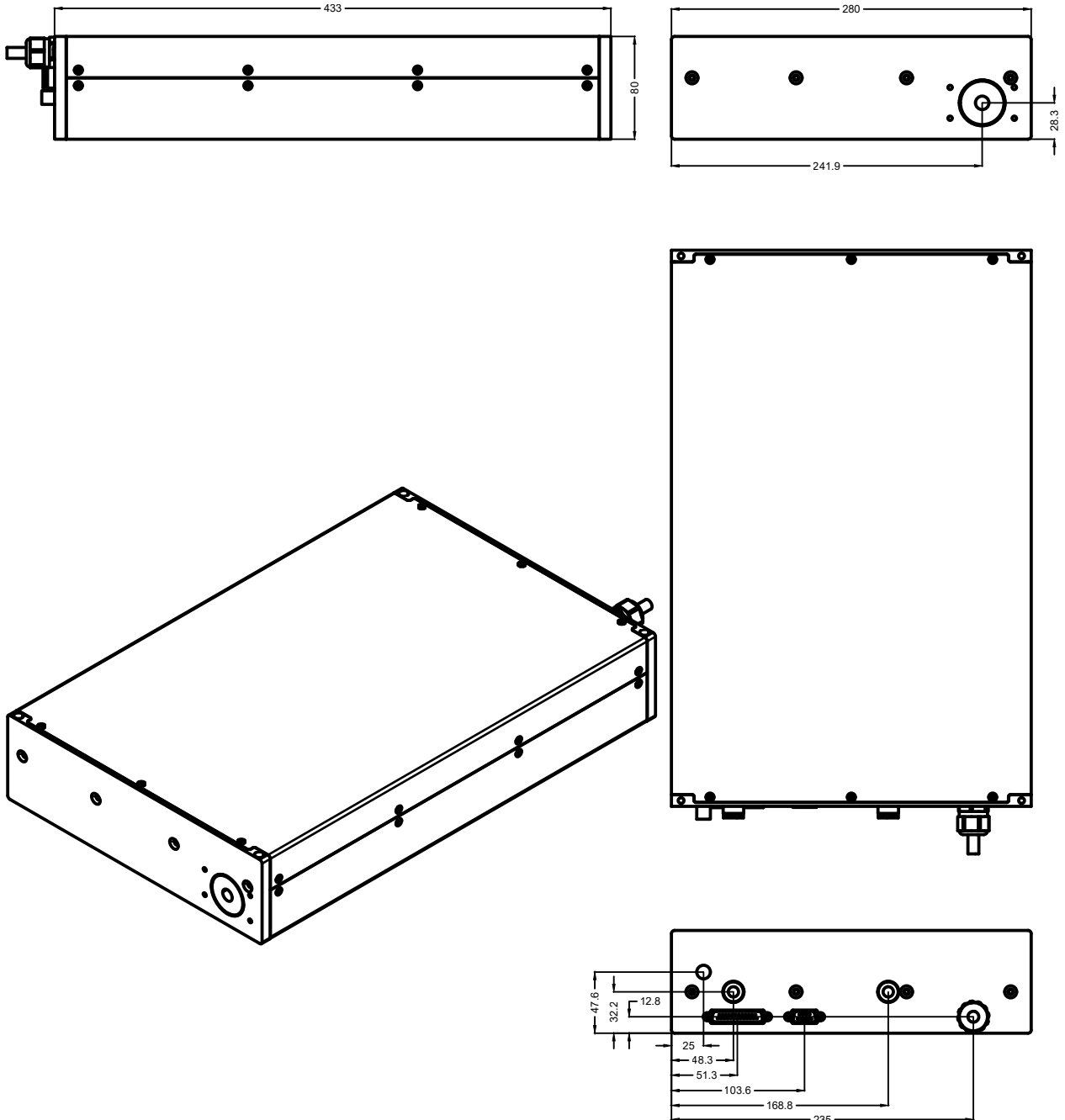


Wavelength	1064 nm	Cooling method	Water
Nominal output power	250 W	Cooling flowrate	12 l/min
Laser operation mode	Pulsed	Cooling power	1 kW
Beam quality ( $\leq$ )	1.6 $M^2$	Aiming beam	Standard
Pulse frequency	1 – 4000 kHz	Adjustable pulse width	Yes
Full power frequency	130 – 4000 kHz	House keeping function	Standard
Max. peak pulse power	38 kW	Supply voltage DC	48 V
Pulse width	6 – 500 ns	Current consumption	18 A
Max. pulse energy	1.92 mJ	Power consumption @ 20°C	870 W
Power instability $\varnothing$	5%	Operation temperature	25 – 35 °C
Power tuning range	0 – 100%	Storage temperature	-10 – 60 °C
Polarization	Random	Cooling- / working-temperature	25 – 35 °C
Anti-reflective coating	Standard	Mechanical dimensions (W × D × H)	280 × 80 × 433 mm
Beam diameter $D_{4\sigma}$	6 mm <sup>[1]</sup>	Net weight	16.5 kg

Product customizations are possible on request.

<sup>[1]</sup> Other available beam diameters: 2.5 mm – 6 mm





Laser product  
Class 4

## JPT

Manufacturer

Fiber laser

M8-250

Dimensions are given in millimeters and are intended as reference values.  
Binding information is available on request.

