

FIBER LASER

M8-100

en | Data sheet | 1.2.1

- Dynamic 100 Watt MOPA fiber laser
- Peak pulse powers up to 43 kW
- Beam quality $M^2 < 1.4$
- Variable adjustable pulse widths
- Low thermal impact

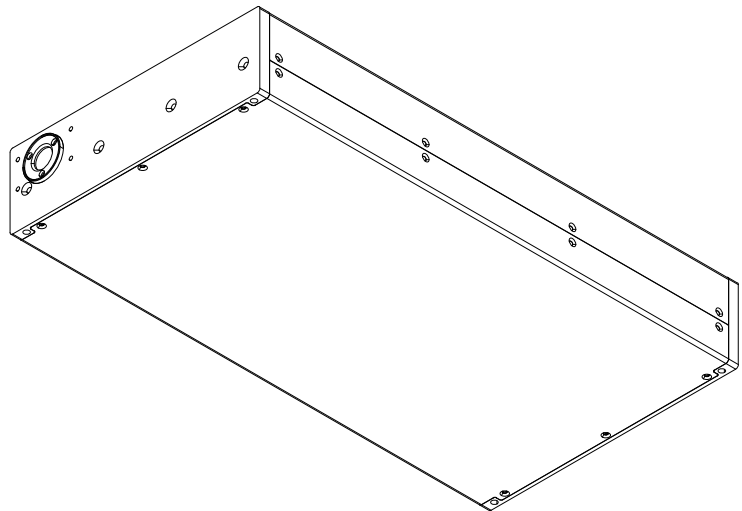
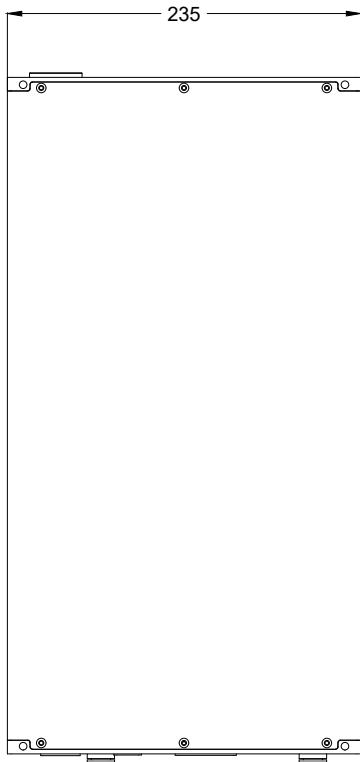
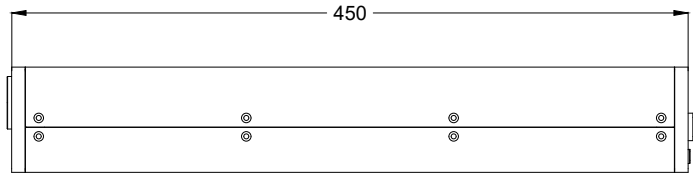
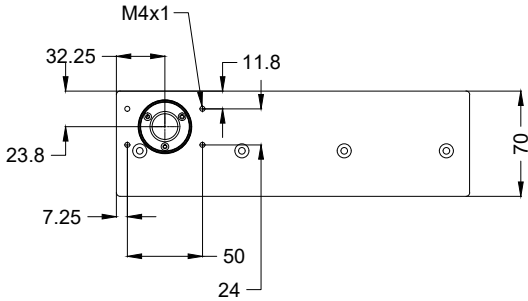


Wavelength	1064 nm	Cooling method	Water
Nominal output power	100 W	Cooling flowrate	5 l/min
Laser operation mode	Pulsed	Cooling power	500 W
Beam quality (\leq)	1.4 M^2	Aiming beam	Standard
Pulse frequency	1 – 4000 kHz	Adjustable pulse width	Yes
Full power frequency	85 – 4000 kHz	House keeping function	Standard
Max. peak pulse power	43 kW	Supply voltage DC	48 V
Pulse width	6 – 100 ns	Current consumption	10 A
Max. pulse energy	1.18 mJ @100 ns	Power consumption @ 20°C	480 W
Power instability \varnothing	5%	Operation temperature	25 – 35 °C
Power tuning range	0 – 100%	Storage temperature	-10 – 60 °C
Polarization	Random	Mechanical dimensions (W × D × H)	235 × 70 × 450 mm
Anti-reflective coating	Standard	Net weight	10.2 kg
Beam diameter $D4\sigma$	3 mm ^[1]		

Product customizations are possible on request.

^[1] Other available beam diameters: 2.5 mm - 6 mm





JPT

Manufacturer

Fiber laser

M8-100

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

