

FIBER LASER

# M7-500M

en | Data sheet | 1.0.1

- High-End 500 Watt MOPA fiber laser
- Variable adjustable pulse widths
- Frequencies up to 4000 kHz
- Beam quality  $M^2 < 1.6$
- Pulsed operation and CW mode



Wavelength	1064 nm	Typical lifetime diodes	80000 h
Nominal output power	500 W	Cooling method	Water
Laser operation mode	Pulsed	Cooling flowrate	12 l/min
Beam quality ( $\leq$ )	1.6 $M^2$	Cooling power	1.2 kW
Pulse frequency	1 – 4000 kHz	Aiming beam	Standard
Full power frequency	330 - 4000 kHz	Adjustable pulse width	Yes
Max. peak pulse power	10 kw @ 30 ns	House keeping function	Standard
Pulse width	30 – 500 ns	Supply voltage DC	48 V
Max. pulse energy	1.5 mJ	Current consumption	35 A
Power instability $\varnothing$	5%	Power consumption @ 20°C	1700 W
Power tuning range	0 – 100%	Operation temperature	0 – 40 °C
Polarization	Random	Storage temperature	-10 – 60 °C
Anti-reflective coating	Standard	Mechanical dimensions (W × D × H)	470 × 70 × 482 mm
Beam diameter $D_{4\sigma}$	7 mm <sup>[1]</sup>	Net weight	25 kg
Fiber length	5 m <sup>[2]</sup>		

Product customizations are possible on request.

<sup>[1]</sup> Other available beam diameters: 2.5 mm - 10.5 mm

<sup>[2]</sup> Other available fiber lengths: 2 m / 3 m

