

M Series

MOPA Pulsed Fiber Laser

The MOPA fiber laser features an air-cooled design, red alignment, and anti-high-reflection capability.



Features

- Air-cooled MOPA 300W, 1.5mJ
- Excellent beam quality, $M^2 < 1.6$
- Independently adjustable pulse width: 20–500ns
- Independently adjustable frequency: 1.6–3000kHz
- Flexible switching between Pulse/Continuous operation modes

Applications

- Metal drilling
- Deep engraving of metal materials
- Micro-welding of thin metal sheets
- Precision cutting of thin metal sheets
- Laser paint/coating removal, cleaning, and rust removal

Parameters

DZM-1.5-20x500C-300-E	
Optical Parameters	
Wavelength	1064 nm
Output Power	300 W
Max. Pulse Energy	1.5 mJ
Max. Peak Pulse Power	10 kW
Pulse-to-Pulse Stability (rms)	< 3%
Repetition Rate	1.6 kHz - 3000 kHz
Polarization Ratio	Random
Pulse Width	20 – 500 ns
Circularity	> 85 %
Beam Quality (M ²)	< 1.6
Beam Diameter at Exit	7 mm
Aiming Beam	Yes
Power Instability	< 3 %
General Parameters	
Power Supply	48 V
Warm-up Time	10 s
Ambient Temperature	0 °C - 35 °C
Ambient Humidity	10 % - 95 %
Cooling Requirement	Air Cooling
Service Life (at standard conditions)	24-month Free Warranty
Physical Properties	
Laser Dimensions	330 mm × 410 mm × 132 mm (L × W × H)
Laser Weight	22 kg

*All specifications are typical data and subject to change without notice due to product improvements.

Laser Dimensions (mm)

