



TÜBİTAK
BİLGEM



5 kW LASER SOURCE

SINGLE MODE FIBER LASER



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FEATURES

- Single Mode Operation (TEM₀₀)
- Maintenance-free Operation
- Over 5 kW Average Power at 1080nm
- Modular Plug&Play Design
- High Wall-Plug Efficiency (%30)

APPLICATIONS

- Directed Energy
- Defence
- High Reflective Material Processing

DEVICE SPECIFICATIONS

OPTICAL

Operation Mode	CW-QCW
Central Wavelength	1080 nm
Average Power	5000 W
Power Tunability	% 20
Power Stability	% ±5
Switching Time/Modulation Rate	600/400 µs/Hz
Beam Quality (M ²)	<2.0

ELECTRICAL

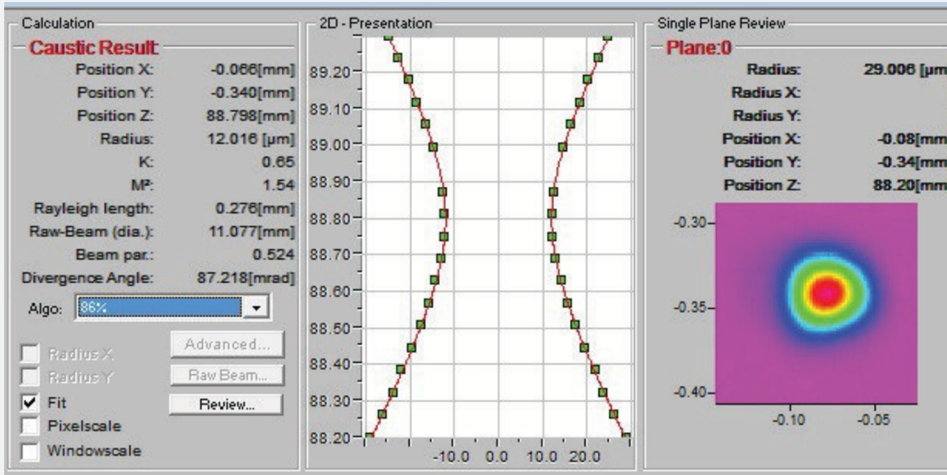
Operating Voltage	380-415, 3-phase V
Voltage Frequency	50/60 Hz
Control Interface	Ethernet

MECHANICAL

Dimensions	540wx1000hx650d mm
Output Fiber Length (QBH connector)	4 m
Method of Cooling	Liquid

ENVIRONMENTAL

Operation Temperature	min +10°C max +40 °C
Storage Temperature	min -10°C max +60 °C
Humidity	min %10 max % 90



5KW LAZER EN-20260416

