

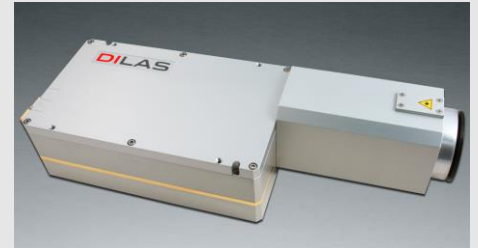
Conduction-Cooled, Multi-Bar Module with Homogenized Laser Beam

Features

- Single wavelength
- Homogenized laser beam
- Thermal interface by base-plate
- Scalable output power

Optional Accessories

- Integrated monitor photo diode
- Integrated NTC temperature sensor



Device Specification

Optical Parameters ¹		Units	
Center Wavelength Range ³		nm	880
Center Wavelength Tolerance		nm	±5
Output Power ²		W	600
Spectral Width (FWHM)		nm	<5
Beam Size ⁶	Length	mm	<12
	Width	µm	325 ±25
Working Distance		mm	160 ±10
Homogeneity ⁵		%	97.5
Wavelength Temp. Coefficient		nm/°C	0.31

Electrical Parameters ¹			
Power Conversion Efficiency		%	≥45
Threshold Current (I _{TH})		A	≤15
Operating Current (I _{OP})		A	≤70
Operating Voltage (V _{OP})		V	<24

Thermal Parameters			
Operating Temperature ^{2, 3, 4} (Cooling Plate)		°C	+20 to +30
Storage Temperature ⁴		°C	0 to +55
Recommended Cooling Capacity		W	≥750

¹Data at 25°C cold plate temperature, unless otherwise stated.

²Reduced lifetime if used above nominal operating conditions.

³Others available upon request.

⁴A non-condensing environment is required for storage and operation below the ambient dew point.

⁵Defined as $1 - (I_{\text{max}} - I_{\text{min}}) / (I_{\text{max}} + I_{\text{min}})$ within 10.5mm line length.

⁶Length is based on 95% power included; width is based on 90% power included.

DILAS
The diode laser company.

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