

1940nm, 600µm, Conduction-Cooled, Fiber-Coupled, Multi-Bar Module

Features

- Single wavelength
- High coupling efficiency
- Industrial water cooling
- Scalable output power
- User exchangeable blast shield

Optional Accessories

- Pointer laser
- Monitor photo diode
- NTC temperature sensor
- Fiber detection sensor



Device Specification

Optical Parameters ¹	Units	
Center Wavelength Range ³	nm	1940
Center Wavelength Tolerance	nm	±20
Output Power ²	W	30
Spectral Width (FWHM)	nm	<15
Slope Efficiency	W/A	>1
Wavelength Temp. Coefficient	nm/°C	>1.2

Fiber Parameters		
Numerical Aperture	NA	0.22
Fiber Core Diameter	µm	600
Fiber Connector	HP-SMA 905 with Free Standing Fiber Tips	

Electrical Parameters ¹		
Power Conversion Efficiency	%	>10
Threshold Current (I_{TH})	A	<8
Operating Current (I_{OP})	A	<45
Operating Voltage (V_{OP})	V	<10

Thermal Parameters		
Operating Temperature ^{2, 3, 4} (Cooling Plate)	°C	+20 to +25
Operating Temperature ^{2, 3, 4} (Diode Laser Module)	°C	+30 to +35
Storage Temperature ^{3,4}	°C	0 to +55
Coolant Flow Rate	l/h	250 to 400
Operating Water Temperature	°C	+20 to +25
Maximum Particle Size	µm	<10
Recommended Cooling Capacity	W	>420

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

²Reduced lifetime if used above nominal operating conditions.

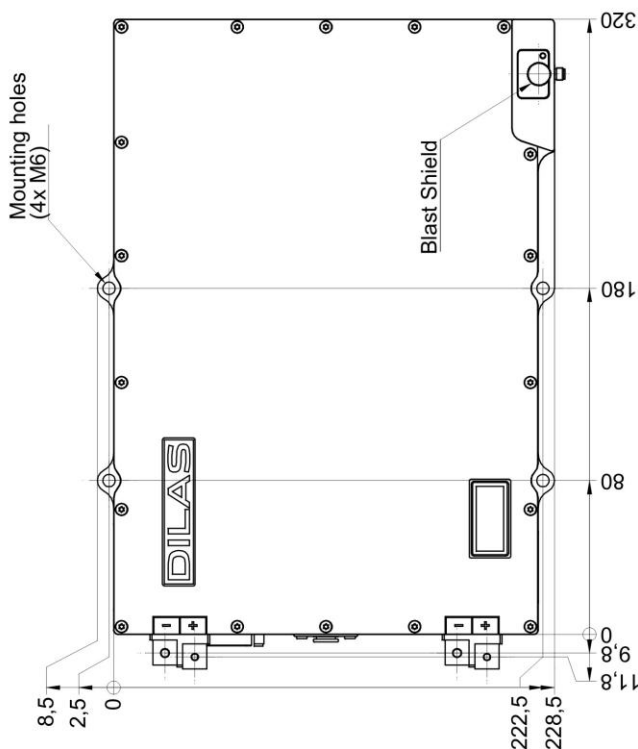
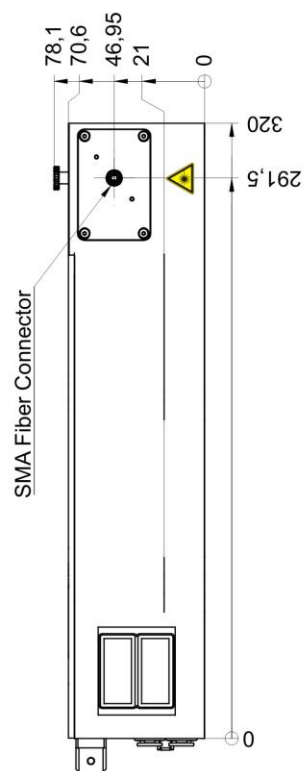
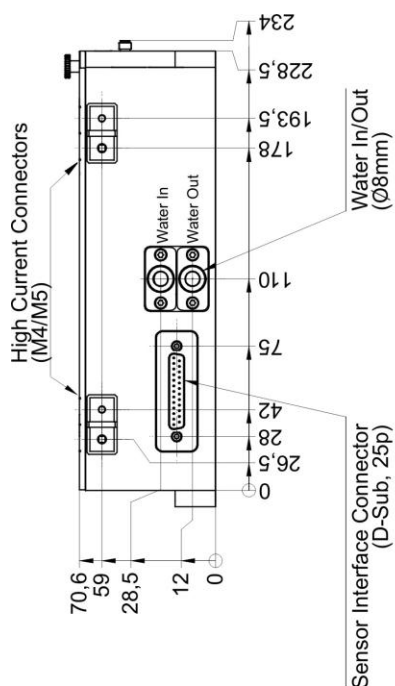
³Others available upon request.

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

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DILAS
The diode laser company.

Package Dimension



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