

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

Features

- Single wavelength
- High coupling efficiency
- Thermal interface by base-plate
- Scalable output power
- Straight fiber output (0°) or 90°
- User exchangeable blast shield

Optional Accessories

- Integrated pointer laser
- Integrated monitor photo diode
- Integrated NTC temperature sensor
- Fiber detection sensor



Device Specification

Optical Parameters ¹		Units	
Center Wavelength Range ³	nm	1940	
Center Wavelength Tolerance	nm	±20	±20
Output Power ²	W	12	18
Spectral Width (FWHM)	nm	<15	<15
Slope Efficiency	W/A	>0.3	>0.5
Wavelength Temp. Coefficient	nm/°C	>1.2	>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	%	>14	>14
Threshold Current (I _{TH})	A	<8	<8
Operating Current (I _{OP})	A	<45	<45
Operating Voltage (V _{OP})	V	<3	<4

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	200 to 300	
Operating Water Temperature	°C	+20 to +25	
Maximum Particle Size	µm	<10	
Recommended Cooling Capacity	W	>130	>170

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

²Reduced lifetime if used above nominal operating conditions.

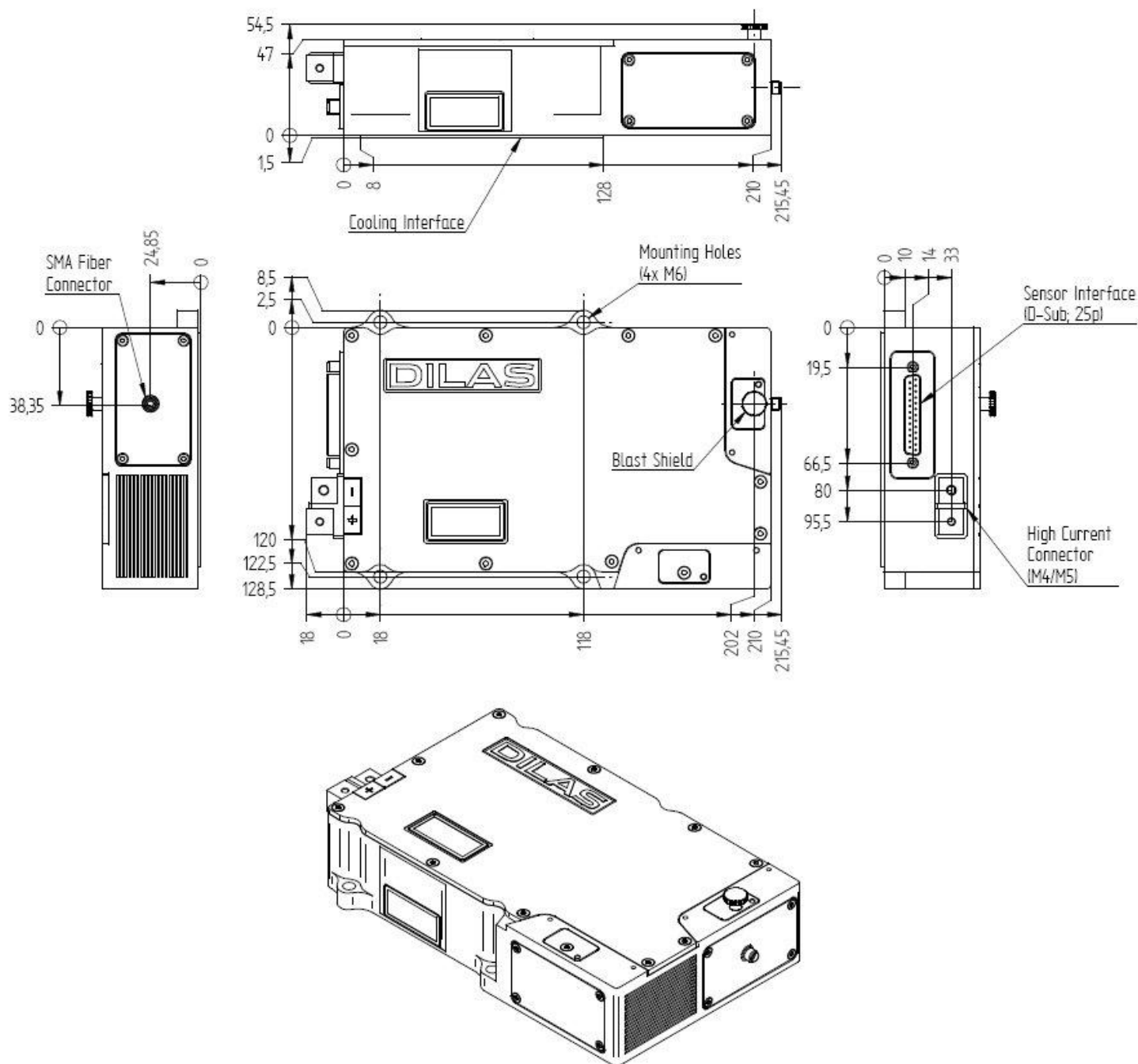
³Others available upon request.

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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