

1470nm, 400µm, Conduction-Cooled, Fiber-Coupled Multi-Bar Module

Features

- Single wavelength
- High coupling efficiency
- Thermal interface by base-plate
- Scalable output power

Optional Accessories

- Integrated pointer laser
- Integrated power meter
- Integrated NTC temperature sensor
- Fiber detection sensor



Device Specification

Optical Parameters ¹	Units	
Center Wavelength Range ³	nm	1470
Center Wavelength Tolerance	nm	±20
Output Power ²	W	80
Spectral Width (FWHM)	nm	<12
Slope Efficiency	W/A	>2
Wavelength Temp. Coefficient	nm/°C	~0.58

Fiber Parameters		
Numerical Aperture	NA	0.22
Fiber Core Diameter	µm	400
Fiber Connector	HP-SMA 905 with Free Standing Fiber Tips	

Electrical Parameters ¹		
Power Conversion Efficiency	%	>20
Threshold Current (I_{TH})	A	<10
Operating Current (I_{OP})	A	50 to 55
Operating Voltage (V_{OP})	V	<9

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.

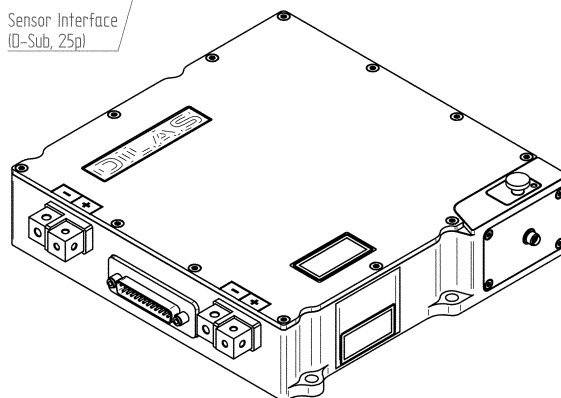
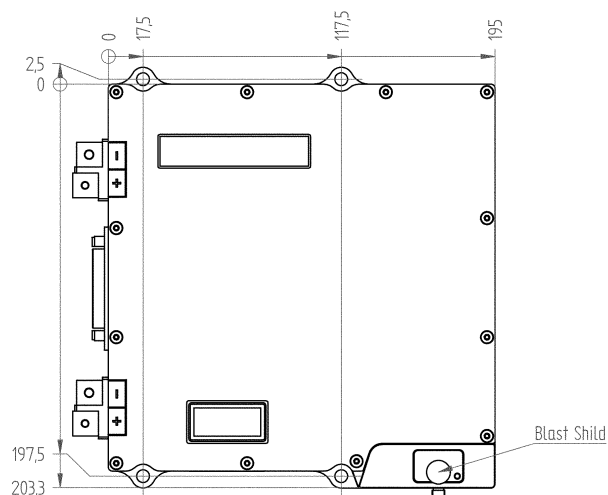
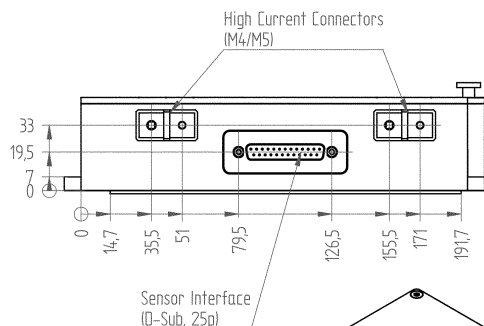
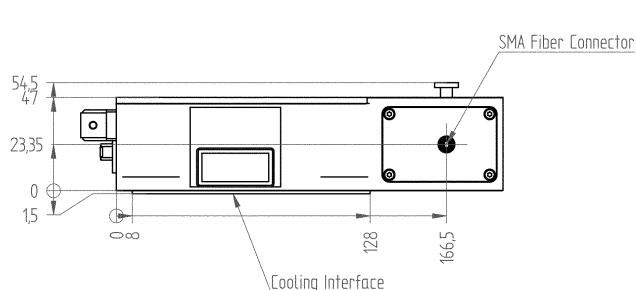
³Others available upon request.

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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