

2λ, Conduction-Cooled/Water-Cooled, Fiber-Coupled, Multi-Bar Module

Features

- Conduction-cooled or water-cooled
- Dual wavelength module
- High coupling efficiency
- Scalable output power

Optional Accessories

- Integrated power meter
- Integrated NTC temperature sensor
- Independent power supply required



Device Specification

Optical Parameters ¹	Units	3 Bars	3 Bars
Center Wavelength Range ²	nm	980	1470
Center Wavelength Tolerance	nm	±5	±20
Output Power ¹	W	150	50
Spectral Width (FWHM)	nm	<5	<12
Slope Efficiency	W/A	~2	>1
Wavelength Temp. Coefficient	nm/°C	0.38	0.58

Fiber Parameters

Numerical Aperture	NA	0.22
Fiber Core Diameter	μm	500
Fiber Connector		HP-SMA 905

Electrical Parameters¹

Power Conversion Efficiency	%	>40	>20
Threshold Current (I_{TH})	A	<7.5	<10
Operating Current (I_{OP})	A	<70	<65
Operating Voltage (V_{OP})	V	<6	<4

Thermal Parameters

Operating Temperature ^{2, 3, 4}	°C	+20 to +25
Storage Temperature ⁴	°C	0 to +55
Recommended Heatsink Capacity	W	>500
Water Manifold Requirement:		
Coolant Flow Rate	l/h	250 - 400
Water Temperature	°C	20 - 25
Purity	μm	Tapwater

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

²Reduced lifetime if used above nominal operating conditions.

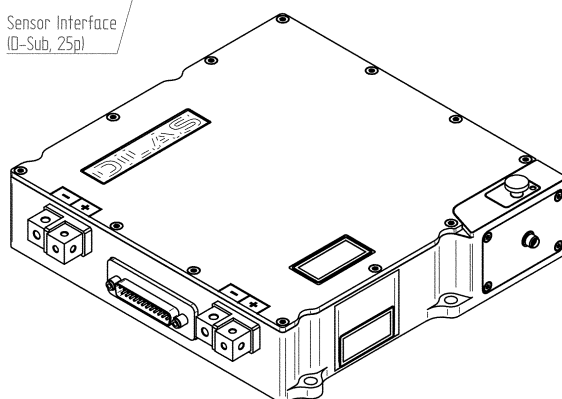
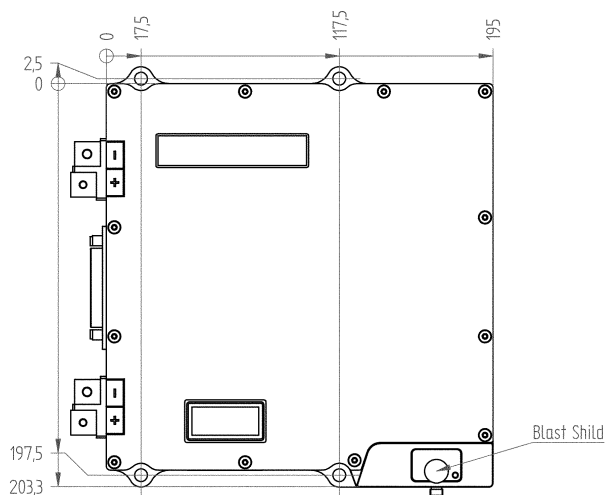
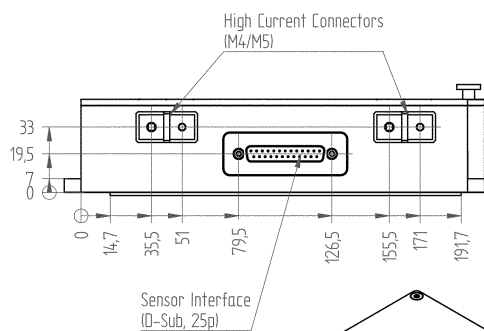
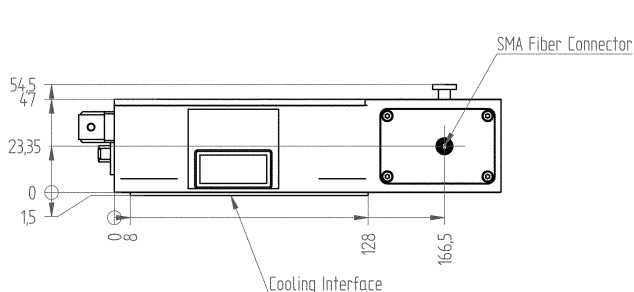
³Others available upon request.

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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