

794.7nm, 400μm, Conduction-Cooled, Narrow Linewidth, Fiber-Coupled, Multi-Bar Module

Features

- Narrow linewidth of <1nm
- High coupling efficiency
- High brightness
- Conduction-cooled
- Sealed housing

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	794.7
Center Wavelength Tolerance	nm	±0.6
Output Power ²	W	80
Spectral Width (FWHM)	nm	<1
Slope Efficiency	W/A	>2.3
Wavelength Temp. Coefficient	nm/°C	~0.01 ⁵

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	%	>30
Threshold Current (I _{TH})	A	<11
Operating Current (I _{OP})	A	<50
Operating Voltage (V _{OP})	V	<6

Thermal Parameters		
Operating Temperature ^{3, 4}	°C	+20 to +30
Storage Temperature ⁴	°C	0 to +55
Recommended Cooling Capacity	W	>220

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

²Reduced lifetime if used above nominal operating conditions.

³Others available upon request.

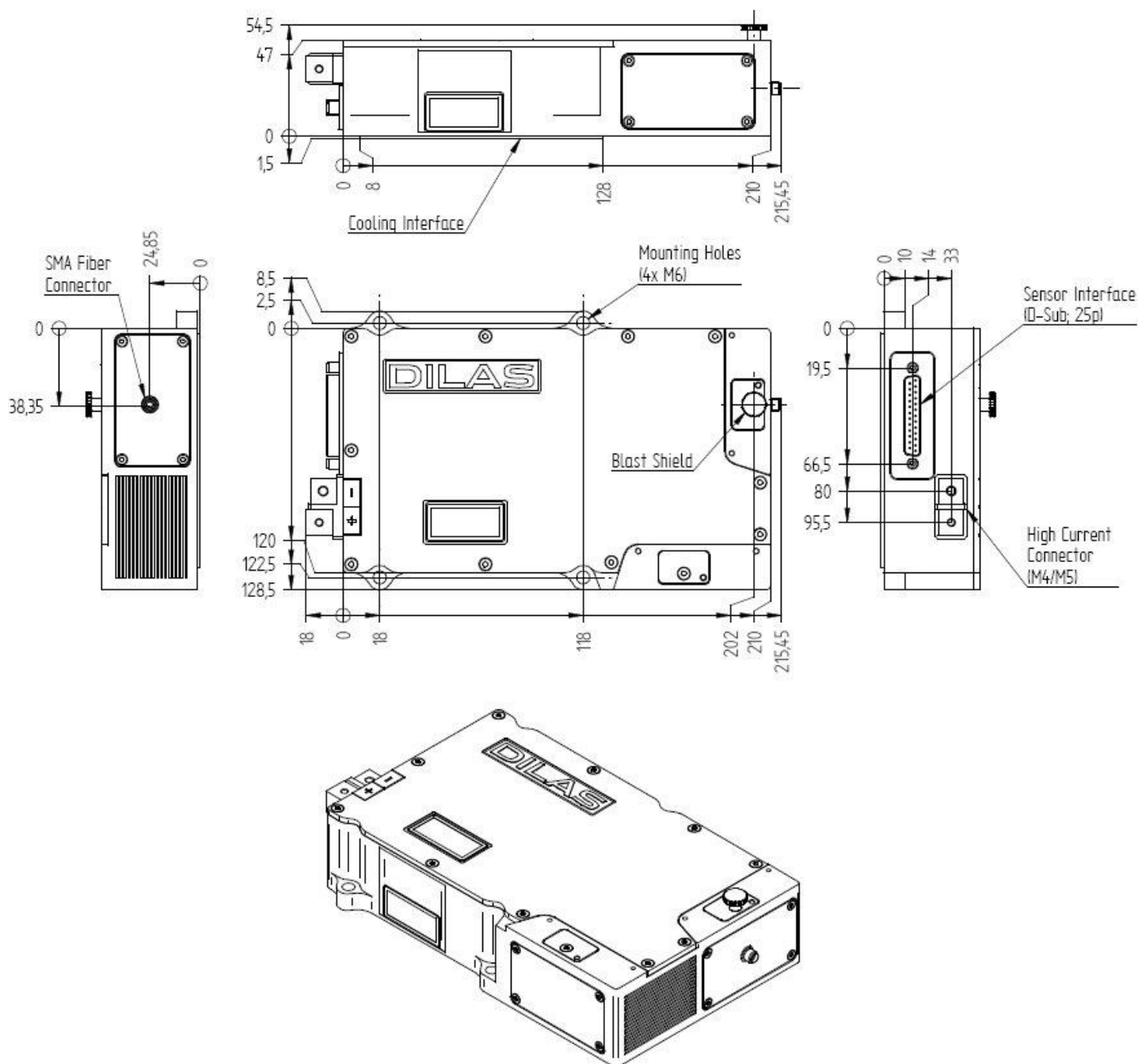
⁴A non-condensing environment is required for storage and operation below the ambient dew point.

⁵Within operating temperature ±3°C

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DILAS
The diode laser company.

Package Dimension



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