

976nm, 300W, Fiber-Coupled, Conduction-Cooled, Tailored Bar Module

Features

- Conduction-cooled diode laser bars inside
- Single wavelength
- High coupling efficiency
- Scalable output power
- Industrial water cooling

Optional Accessories

- Integrated pointer laser and power meter
- Integrated NTC temperature sensor
- Fiber plug control
- Wavelength stabilization



Device Specification

Optical Parameters ¹		Units
Center Wavelength ²	nm	976
Wavelength Tolerance	nm	±2
Output Power ³	W	300
Spectral Width (FWHM)	nm	<6
Slope Efficiency	W/A	>11
Wavelength Temperature Coefficient	nm/K	0.38
Fiber Parameters		
Fiber Core Diameter	μm	200
Numerical Aperture	NA	0.22
Fiber Connector ⁴		QBH
Electrical Parameters ¹		
Power Conversion Efficiency	%	>45
Threshold Current (I_{TH})	A	<3.5
Operating Current (I_{OP})	A	<40
Operating Voltage (U_{OP})	V	<25
Thermal Parameters		
Operating Temperature ^{2,5}	°C	+20 to +25
Storage Temperature	°C	+5 to +60
Coolant Flow Rate	l/h	300
Water Temperature	°C	+20 to +25
Purity		Tap Water
Mechanical Parameters		
Size		See Drawing
Weight	kg	4.4

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

²Others available upon request.

³Reduced lifetime if used above nominal operating conditions.

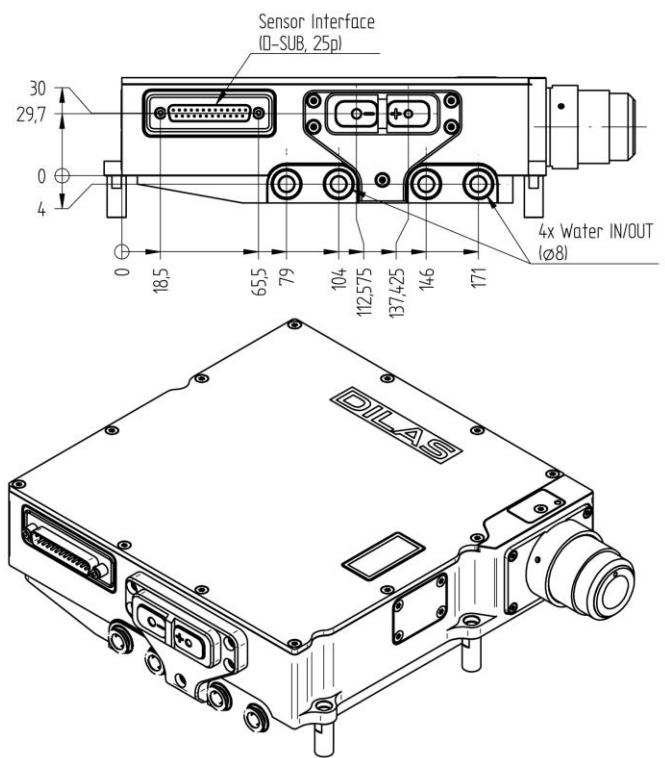
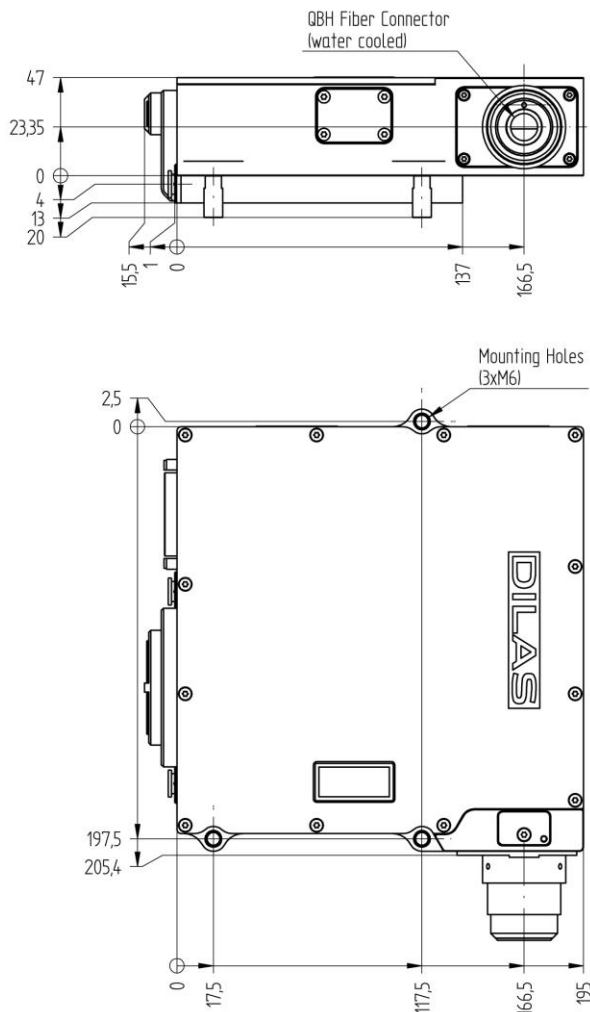
⁴A non-condensing environment is required for storage and operation.

⁵If QBH fiber is used particle size for cooling water of fiber is 50μm.

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DILAS
The diode laser company.

Package Dimension



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