

240W, 915nm, 200µm Ø, Fiber-Coupled, Multi-Bar Module Based Conduction-Cooled, Tailored Mini-Bars

Features

- Conduction-Cooled diode laser bars
- Single wavelength
- High coupling efficiency
- Scalable output power
- Back reflection filter
- Modestrip fiber



Device Specification

Optical Parameters ¹		Units
Center Wavelength ²	nm	915
Wavelength Tolerance	nm	±5
Output Power ³	W	240
Spectral Width (FWHM)	nm	<5
Slope Efficiency	W/A	>7

Fiber Parameters		
Fiber Connector		Fixed Pigtail Fiber
Fiber Core Diameter	µm	200/240 (Modestrip)
Numerical Aperture	NA	0.22

Electrical Parameters ¹		
Power Conversion Efficiency	%	>45
Threshold Current (I _{TH})	A	<4
Operating Current (I _{OP})	A	<40
Operating Voltage (U _{OP})	V	<15

Thermal Parameters ⁴		
Operating Temperature ³	°C	+20 to +25
Storage Temperature ⁴	°C	+5 to +60
Coolant Flow Rate ⁵	l/h	>150
Water Temperature	°C	+20 to +25
Purity		Tap Water

Mechanical Parameters		
Size		See Drawing
Weight (Without Water Manifold)	kg	~1

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

²Others available upon request.

³Reduce lifetime if used above nominal operating conditions.

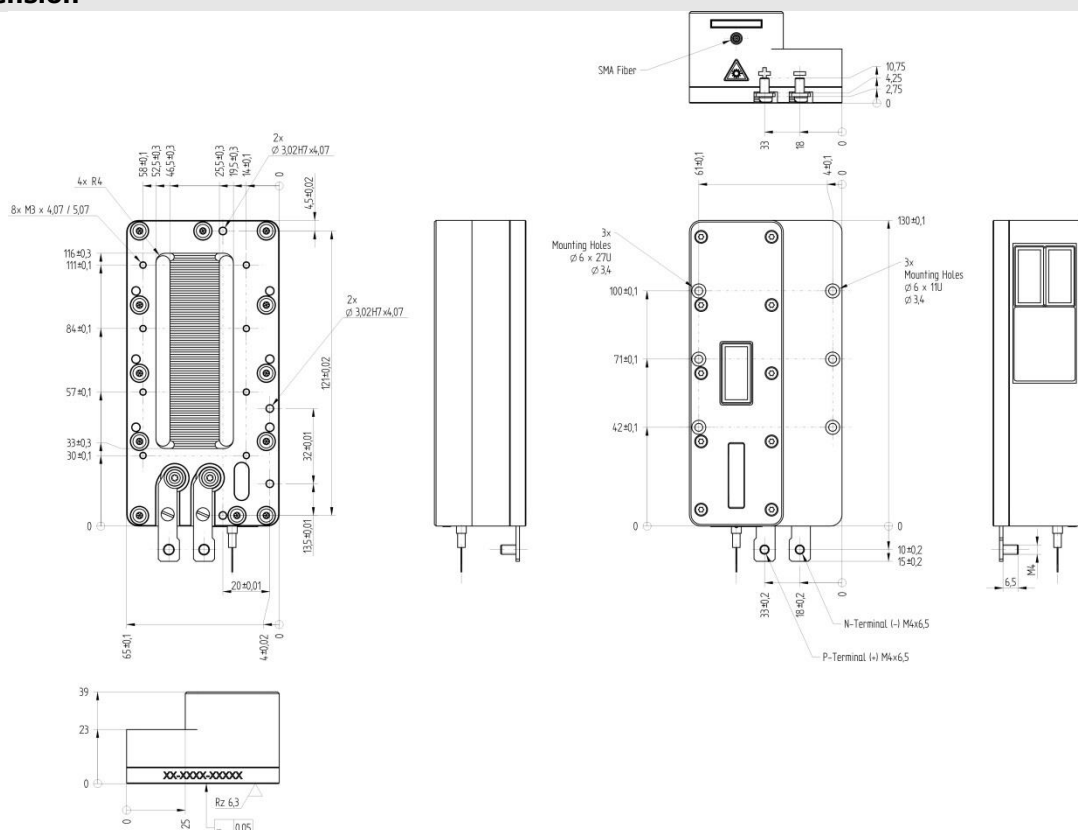
⁴A non-condensing environment is required for storage and operation below the ambient dew point.

⁵Its essential for correct functioning of the module the cooling water temperature and flow rate are monitored as an interlock for interrupting the laser current immediately if a value exceeds or falls below the given parameter.

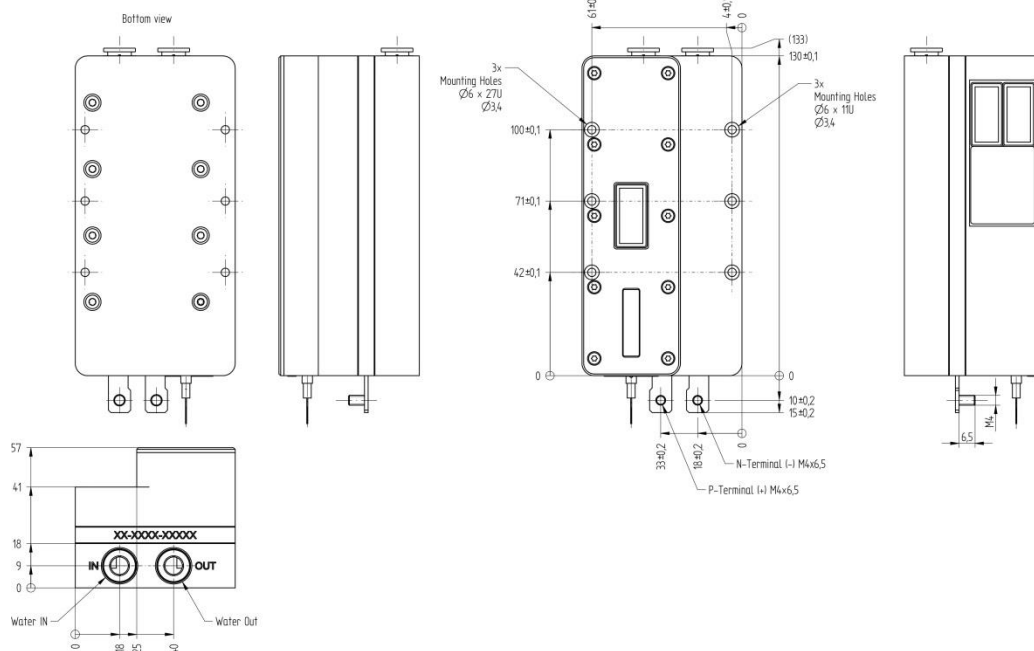
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DILAS
The diode laser company.

Package Dimension



Water Connector Version



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