

200W, 976nm, Fiber-Coupled, Multi-Bar Module Based on Conduction-Cooled, Tailored Bars

Features

- Conduction-cooled diode laser bars inside
- Single wavelength
- High coupling efficiency

Optional Accessories

- Integrated power meter
- Integrated NTC temperature sensor



Device Specification

Optical Parameters ¹	Units	
Center Wavelength	nm	976 ³
Wavelength Tolerance	nm	±3
Output Power ¹	W	200
Spectral Width (FWHM)	nm	<5
Slope Efficiency	W/A	>6.0

Fiber Parameters		
Fiber Core Diameter	µm	200
Numerical Aperture	NA	0.22
Fiber Connector		Optoskand SMA0.5Q

Electrical Parameters ¹		
Power Conversion Efficiency	%	>45
Threshold Current (I _{TH})	A	3
Operating Current (I _{OP})	A	<40
Operating Voltage (U _{OP})	V	<11.5

Thermal Parameters ⁴		
Operating Temperature ^{2, 3}	°C	+20 to +25
Storage Temperature	°C	+5 to +60
Coolant Flow Rate	l/h	>150
Water Temperature	°C	+20 to +25
Purity	µm	Tap Water

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

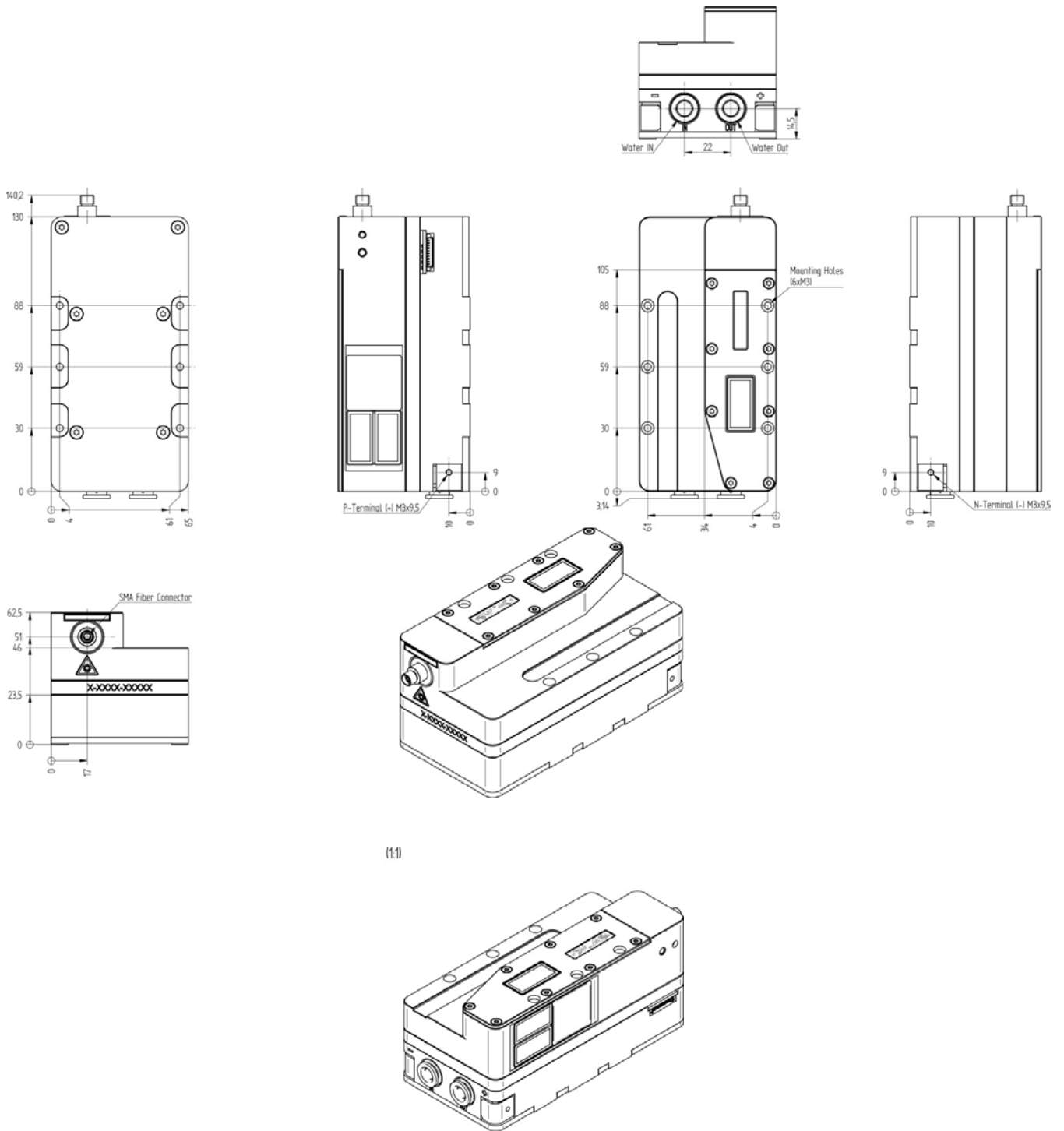
²Reduced lifetime if used above nominal operating conditions

³Additional information available upon request

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

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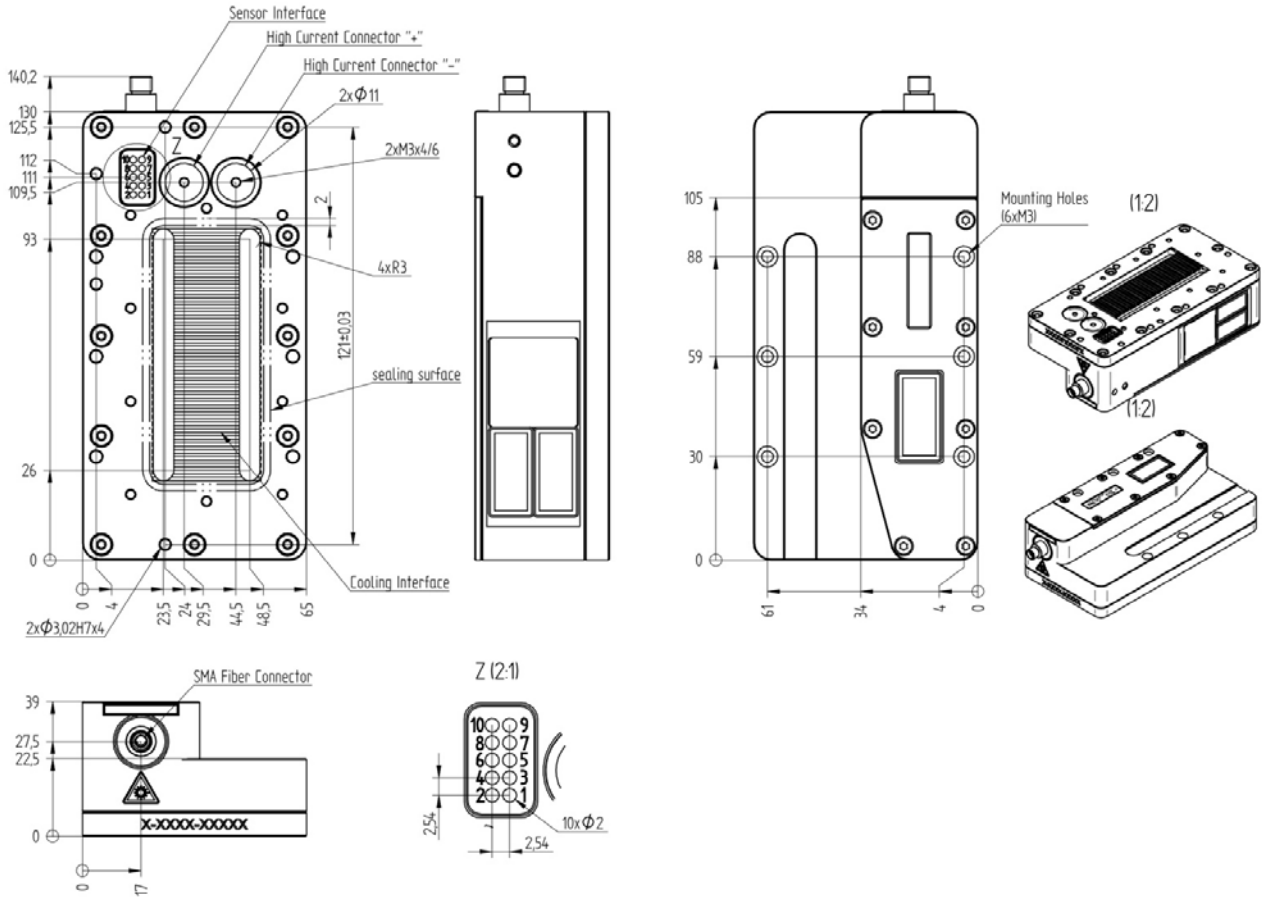
Package Dimension with Water Manifold



(1:1)

200W, 976nm, Fiber-Coupled, Multi-Bar Module Based on Conduction-Cooled, Tailored Bars

Package Dimension without Water Manifold



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