

Conduction-Cooled, QCW, Multi-Bar Module

Features

- QCW operation
- Single wavelength
- High coupling efficiency
- Thermal interface by stack-base-plate
- Scalable output power

Optional Accessories

- Integrated temperature sensor
- Fiber connection control



Device Specification

Optical Parameters ¹	Units	
Wavelength Range	nm	790 to 980
Center Wavelength Tolerance ³	nm	±5
Output Peak Power ²	W	500
Spectral Width (FWHM)	nm	<6
Slope Efficiency	W/A	>9
Wavelength Temp. Coefficient	nm/°C	~0.3

Fiber Parameters		
Numerical Aperture	NA	0.22
Fiber Core	µm	800
Fiber Connector		SMA with Free Standing Fiber Tips

Electrical Parameters ¹		
Power Conversion Efficiency	%	>40
Threshold Current (I_{TH})	A	<15
Maximum Operating Current (I_{OP})	A	<80
Operating Voltage (V_{OP})	V	<20
Duty Cycle (DC)	%	<2

Thermal Parameters		
Operating Temperature ^{2, 3, 4}	°C	+20 to +30
Storage Temperature ^{3,4}	°C	0 to +55
Coolant Flow Rate	l/h	100 to 200
Maximum Particle Size	µm	<5 / Deionized Water ⁵
Recommended Cooling Capacity	W	>30

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

²Reduced lifetime if used above nominal operating conditions.

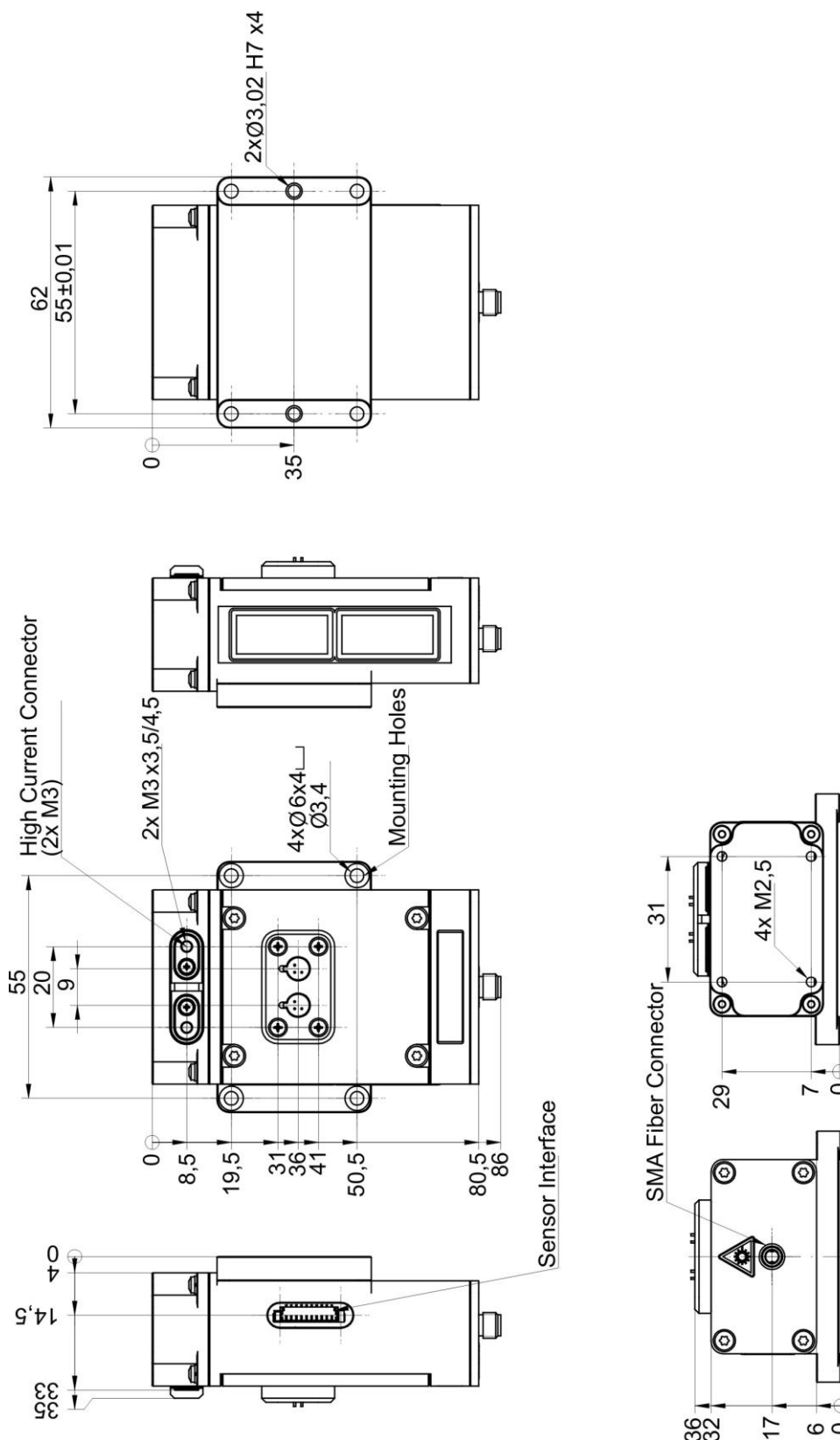
³Others available upon request.

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

⁵Follow DILAS cooling water specifications.

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Package Dimension



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