

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 Heat Sink Capacity | W | >30 |

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

²Reduced lifetime if used above nominal operating conditions.

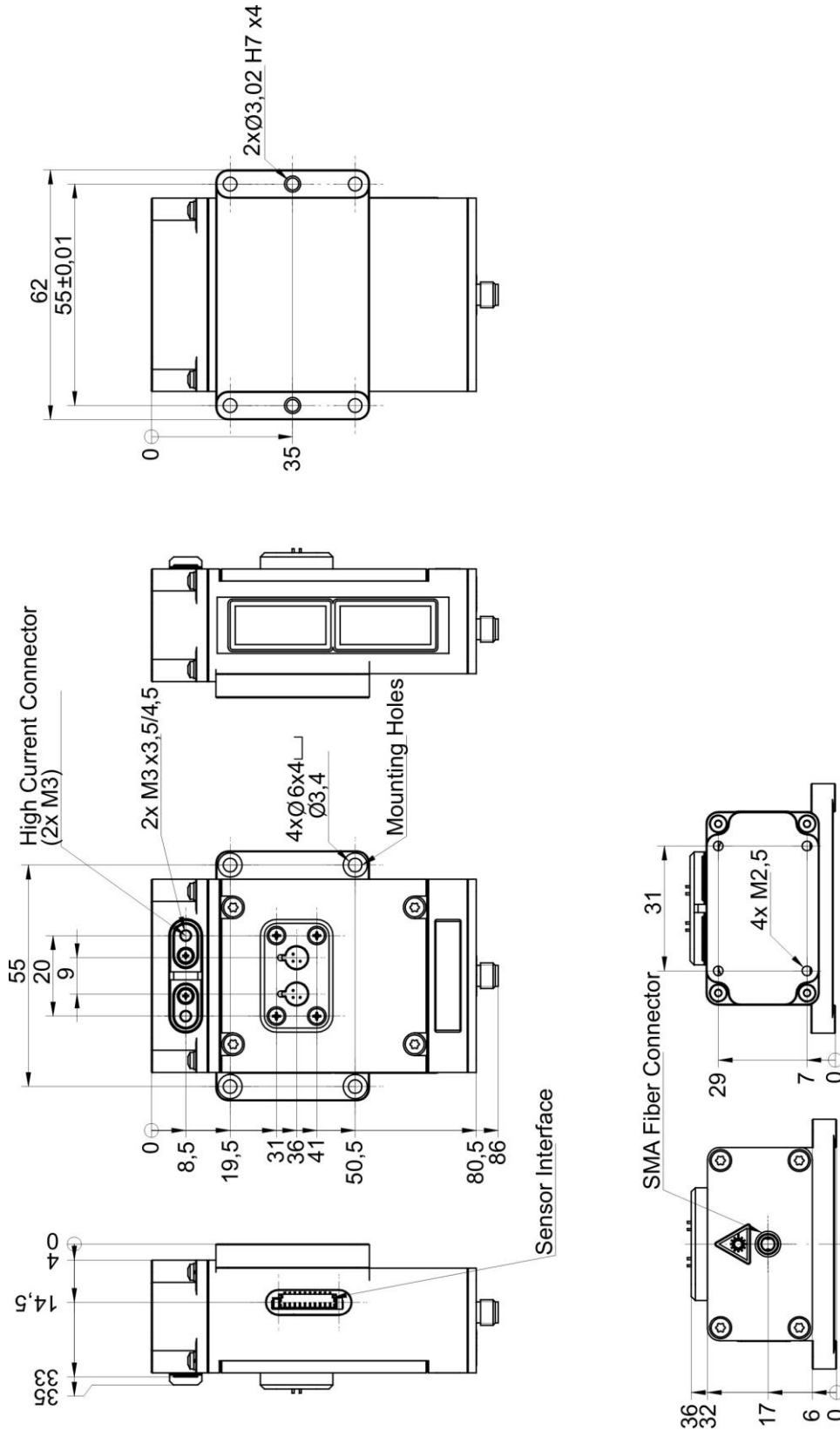
³Others available upon request.

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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