

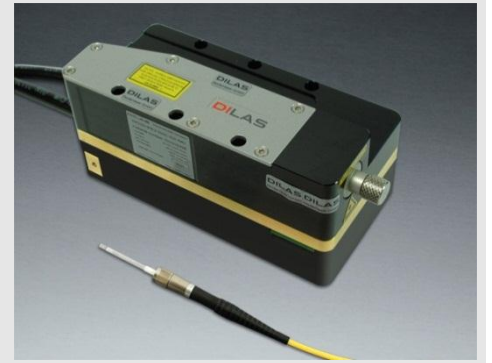
793nm, Fiber-Coupled, Conduction-Cooled, Tailored Bar Module

Features

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

Optional Accessories

- Integrated power meter
- Back reflection filter



Device Specification¹

| Optical Parameters ¹ | Units | |
|-----------------------------------|-------|------|
| Center Wavelength ^{2, 3} | nm | 793 |
| Wavelength Tolerance | nm | ±2 |
| Output Power ¹ | W | 100 |
| Number of Bars | # | 7 |
| Spectral Width (FWHM) | nm | <5 |
| Slope Efficiency | W/A | >5.0 |

| Fiber Parameters ⁵ | | |
|-------------------------------------|----|----------|
| Fiber Core Diameter ^{2, 4} | µm | 200 |
| Numerical Aperture | NA | 0.22 |
| Fiber Connector | | SMA 0.5Q |

| Electrical Parameters ¹ | | |
|------------------------------------|---|-----|
| Power Conversion Efficiency | % | >30 |
| Threshold Current (I_{TH}) | A | <7 |
| Operating Current (I_{OP}) | A | <27 |
| Operating Voltage (U_{OP}) | V | <13 |

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

| Mechanical Parameters | | |
|-----------------------|----|-------------|
| Size | | See Drawing |
| Weight | kg | ~1 |

¹Data at 20°C cold plate temperature, unless otherwise stated.

²Reduced lifetime if used above nominal operating conditions.

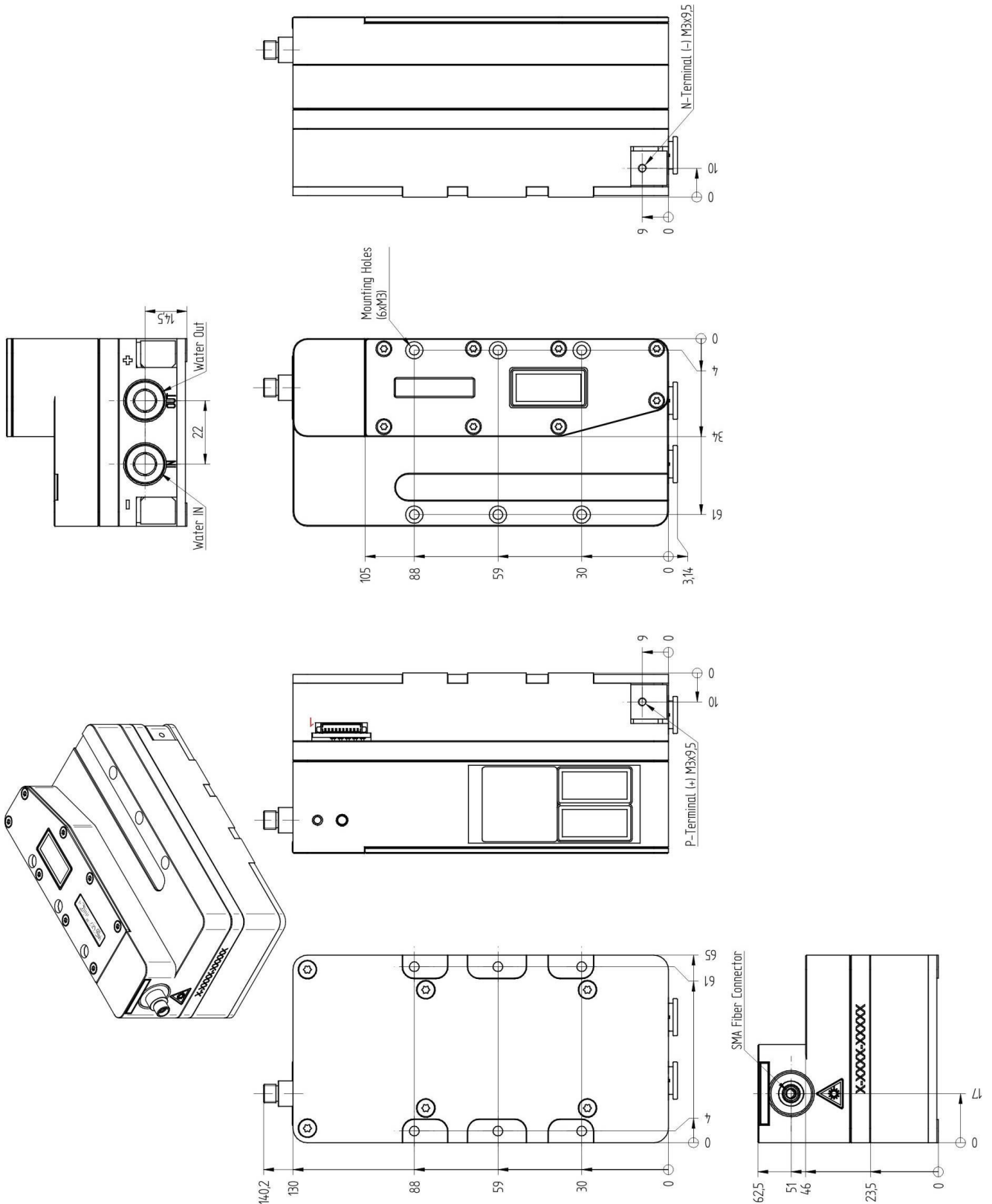
³Others available upon request.

⁴Additional information available upon request.

⁵A non-condensing environment is required for storage and operation.

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Package Dimension



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