

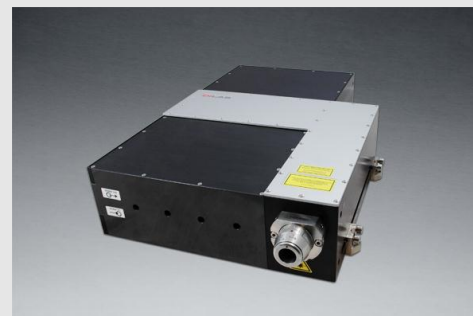
1200W, 976nm, Fiber-Coupled, Conduction-Cooled, Tailored Bar Module

Features

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

Optional Accessories

- Integrated pointer laser and power meter
- Integrated NTC temperature sensor
- Fiber plug control



Device Specification

| Optical Parameters ¹ | Units | |
|------------------------------------|-------|------|
| Center Wavelength ³ | nm | 976 |
| Wavelength Tolerance | nm | ±2 |
| Output Power ² | W | 1200 |
| Spectral Width (FWHM) | nm | <6 |
| Slope Efficiency | W/A | >30 |
| Wavelength Temperature Coefficient | nm/°C | 0.38 |

| Fiber Parameters | | |
|---------------------|----|------|
| Fiber Core Diameter | µm | 300 |
| Numerical Aperture | NA | 0.22 |
| Fiber Connector | | QBH |

| Electrical Parameters ¹ | | |
|--------------------------------------|---|------|
| Power Conversion Efficiency | % | >42 |
| Threshold Current (I _{TH}) | A | <3.5 |
| Operating Current (I _{OP}) | A | <40 |
| Operating Voltage (U _{OP}) | V | <75 |

| Thermal Parameters | | |
|--------------------------------------|-----|------------|
| Operating Temperature ^{3,4} | °C | +20 to +25 |
| Storage Temperature | °C | +0 to +55 |
| Transportation Temperature | °C | -20 to +55 |
| Coolant Flow Rate | l/h | 900 |
| Water Temperature | °C | +20 to +25 |
| Purity | µm | Tap Water |

| Mechanical Parameters | | |
|-----------------------|----|-------------|
| Size | | See Drawing |
| Weight | kg | ~18 |

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

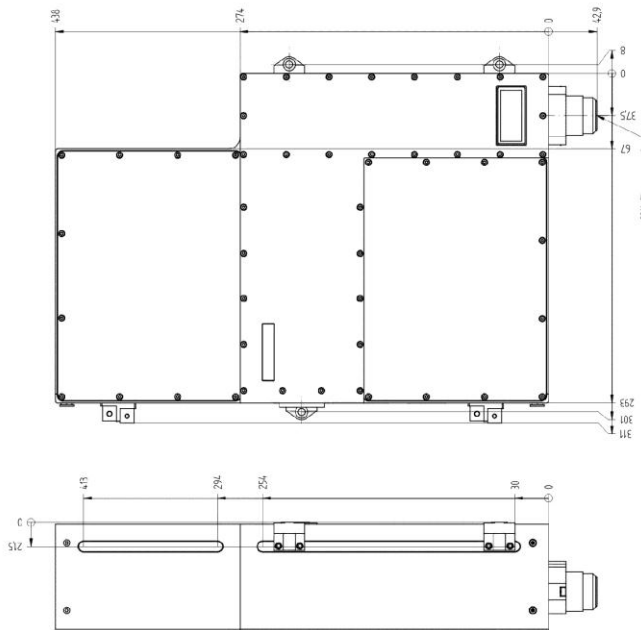
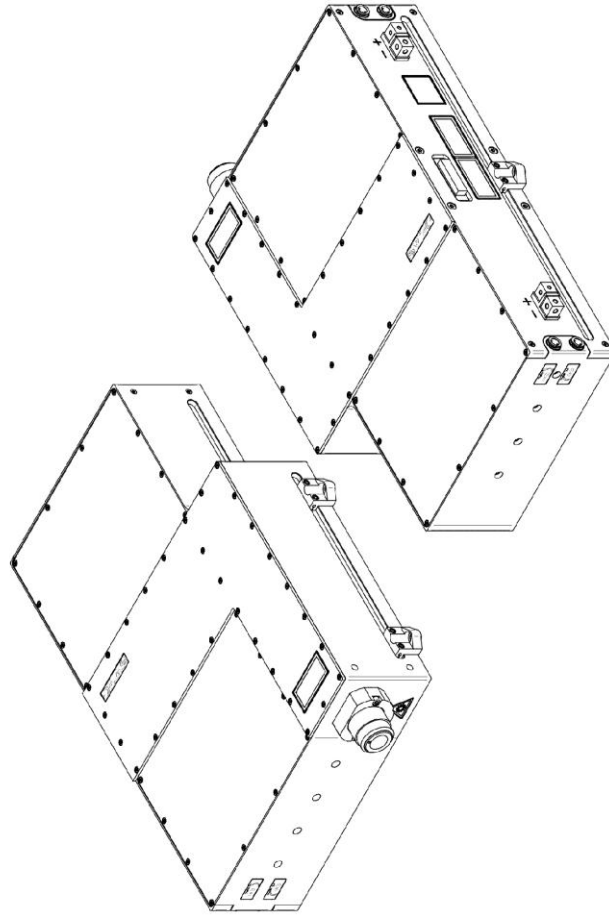
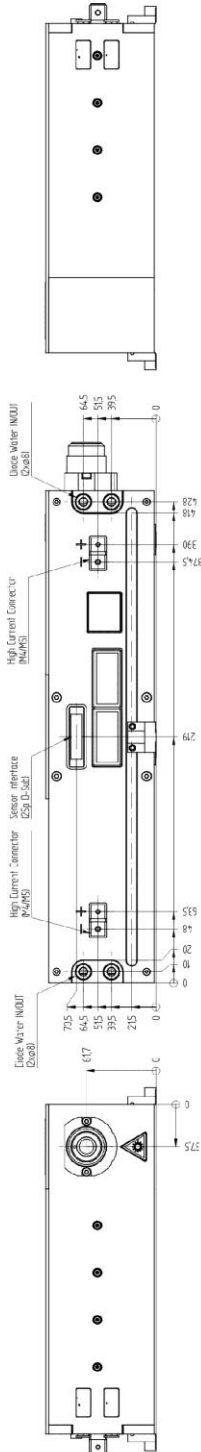
²Reduced lifetime if used above nominal operating conditions.

³Others available upon request.

⁴A non-condensing environment is required for storage and operation.

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Package Dimension



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