

Conduction-Cooled, Multi-Bar Module with Homogenized Laser Beam

Features

- Single wavelength
- Homogenized laser beam
- Thermal interface by base-plate
- Scalable output power

Optional Accessories

- Integrated monitor photo diode
- Integrated NTC temperature sensor



Device Specification

Optical Parameters ¹		Units	
Center Wavelength Range ³		nm	808 - 980
Center Wavelength Tolerance		nm	±5
Output Power ²		W	250
Spectral Width (FWHM)		nm	<5
Beam Size (FWHM) ⁶	Length	mm	52 ±3
	Width	mm	2 ±0.3
Working Distance		mm	300 ±10
Homogeneity ⁵		%	90
Wavelength Temp. Coefficient		nm/°C	0.31

Electrical Parameters ¹		
Power Conversion Efficiency	%	≥40
Threshold Current (I_{TH})	A	<10
Operating Current (I_{OP})	A	50
Operating Voltage (V_{OP})	V	<12

Thermal Parameters		
Operating Temperature ^{2, 3, 4} (Cooling Plate)	°C	+20 to +25
Operating Temperature ^{2, 3, 4} (Diode Laser Module)	°C	+30 to +35
Storage Temperature ^{3,4}	°C	0 to +55
Flow	L/h	250 to 400
Operating Water Temperature	°C	+20 to +25
Purity	µm	10
Recommended Cooling Capacity	W	>350

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

²Reduced lifetime if used above nominal operating conditions.

³Others available upon request.

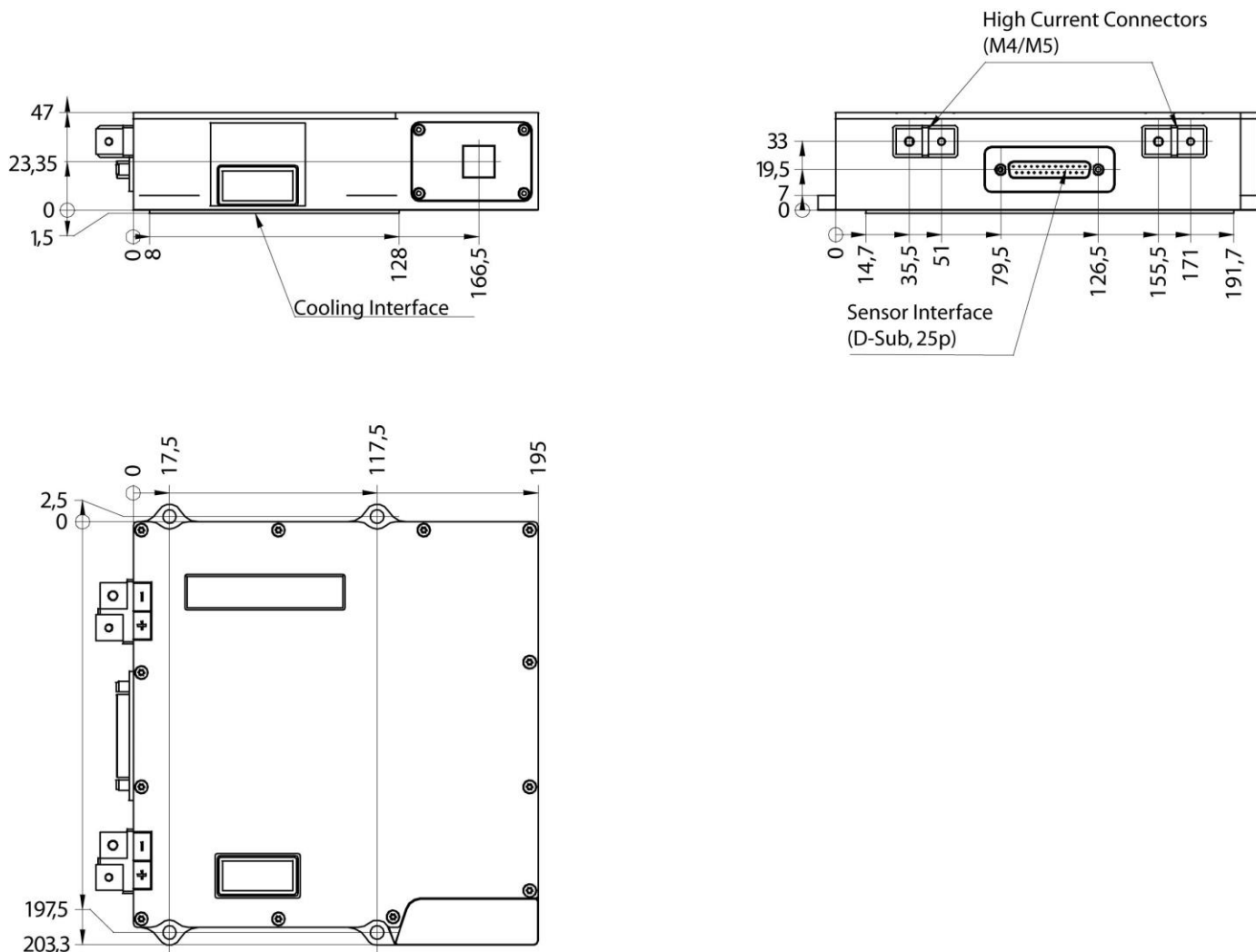
⁴A non-condensing environment is required for storage and operation below the ambient dew point.

⁵Defined as $[1 - (I_{max} - I_{min}) / (I_{max} + I_{min})]$.

⁶Other beam sizes available: length: 1mm – 1000mm; width: 0.1mm – 100mm.

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Package Dimension



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