

Water-Cooled, QCW, Fiber-Coupled Multi-Bar Module

Features

- QCW operation and long pulse operation
- Single wavelength
- High coupling efficiency
- Integrated protection glass (blast shield)
- Water cooling using deionized water

Optional Accessories

- Temperature sensor
- Fiber connection control
- Pilot beam



Device Specification

Optical Parameters

Center Wavelength Range ³	nm	790 to 980
Center Wavelength Tolerance	nm	±10
Output Power ²	W	600
Spectral Width (FWHM)	nm	<7
Slope Efficiency	W/A	>10
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 Parameters¹

Power Conversion Efficiency	%	>40
Threshold Current (I_{TH})	A	<15
Maximum Operating Current (I_{OP})	A	<80
Operating Voltage (V_{OP})	V	<24
Duty Cycle (DC)	%	<30

Thermal Parameters

Operating Temperature ^{2, 3, 4}	°C	+20 to +30
Storage Temperature ^{3, 4}	°C	0 to +55
Transportation Temperature		-20 to +55
Coolant Flow Rate	l/h	216 to 264
Operating Water Temperature	°C	+20 to +25
Maximum Particle Size	µm	<5 / Deionized Water ⁵
Recommended Cooling Capacity	W	>400

Mechanical Parameters

Weight	kg	<2
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¹Data at 20°C cold water temperature, unless otherwise stated.

²Reduced lifetime if used above nominal operating conditions.

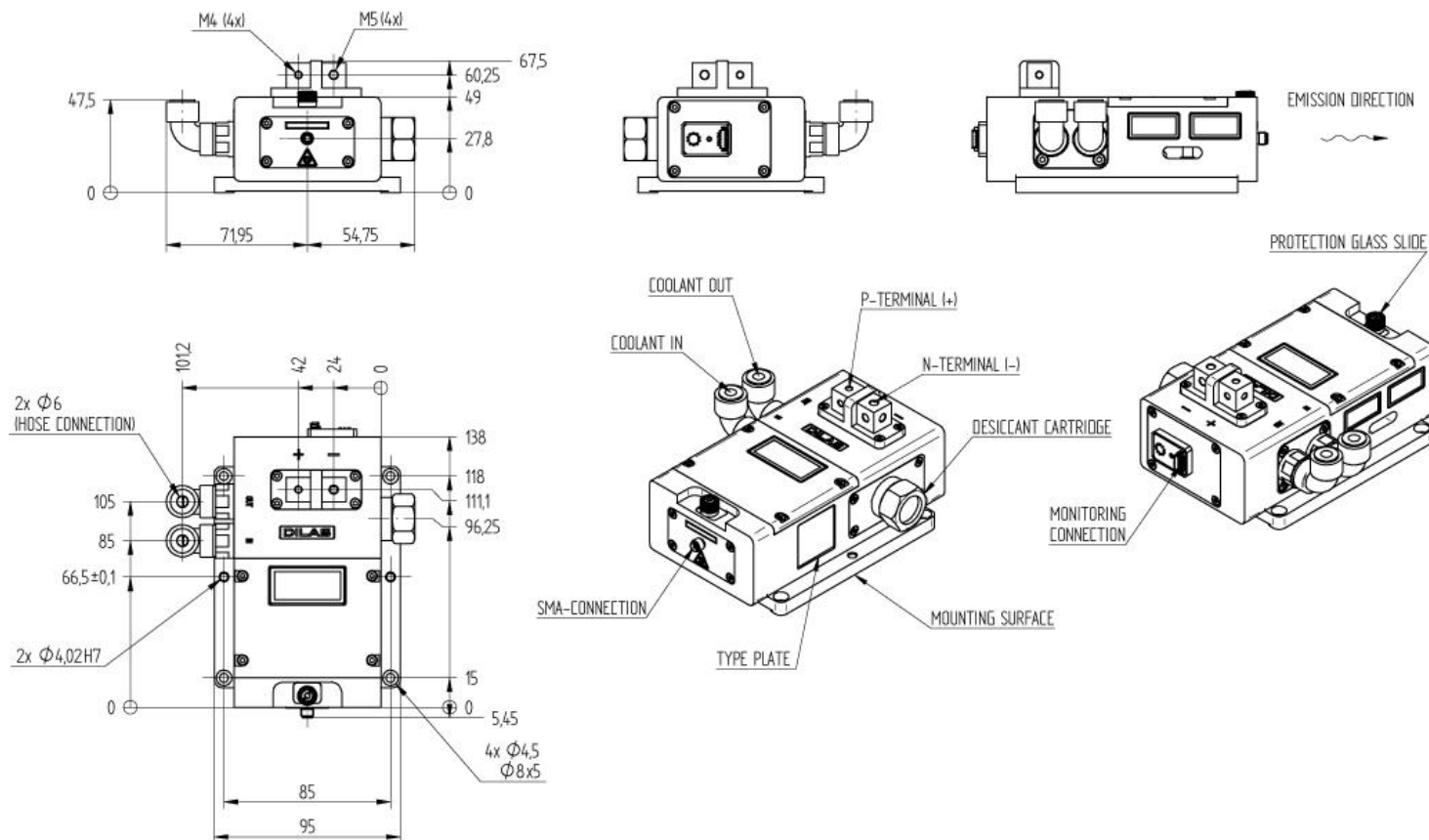
³Others available upon request.

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

⁵Follow DILAS cooling water specifications.

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Package Dimension



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