

# 880nm, 400µm, Conduction-Cooled, Fiber-Coupled, Two-Bar Module

## Features

- Single wavelength
- High coupling efficiency
- Thermal interface by base-plate
- Water manifold for water cooling

## Optional Accessories

- Integrated pointer laser and power meter
- Integrated temperature sensor
- Fiber interlock
- TE adapter for thermo electric cooling
- Exchangeable protection window



## Device Specification

Optical Parameters <sup>1</sup>	Units	
Center Wavelength Range <sup>3</sup>	nm	880
Center Wavelength Tolerance	nm	±3
Output Power <sup>2</sup>	W	100
Spectral Width (FWHM)	nm	<5
Slope Efficiency	W/A	>1.5
Wavelength Temp. Coefficient	nm/°C	~0.31

Fiber Parameters		
Numerical Aperture	NA	0.22
Fiber Core Diameter	µm	400
Fiber Connector		HP-SMA 905 with Free Standing Fiber Tips

Electrical Parameters <sup>1</sup>		
Power Conversion Efficiency	%	>40
Threshold Current ( $I_{TH}$ )	A	<14
Operating Current ( $I_{OP}$ )	A	<65
Operating Voltage ( $V_{OP}$ )	V	<4

Thermal Parameters		
Operating Temperature <sup>2, 3, 4</sup> (Cooling Plate)	°C	+20 to +25
Operating Temperature <sup>2, 3, 4</sup> (Diode Laser Module)	°C	+30 to +35
Storage Temperature <sup>3,4</sup>	°C	0 to +55
Coolant Flow Rate	l/h	150 to 200
Operating Water Temperature	°C	+20 to +25
Maximum Particle Size	µm	<10
Recommended Cooling Capacity	W	>160

<sup>1</sup>Data at 25°C cold plate temperature, unless otherwise stated.

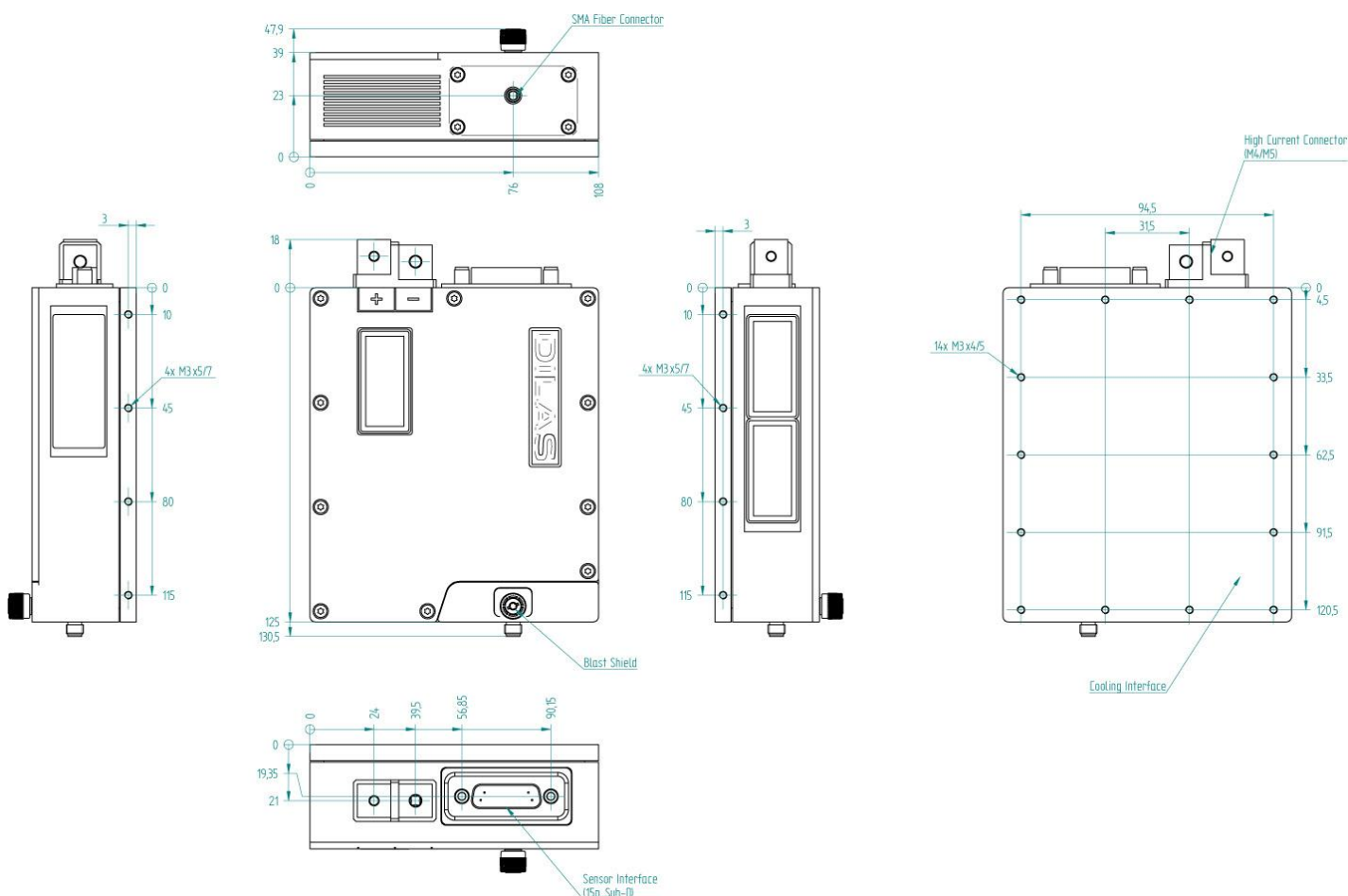
<sup>2</sup>Reduced lifetime if used above nominal operating conditions.

<sup>3</sup>Others available upon request.

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

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## Package Dimension



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