

976nm, 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 ¹	Units		
Center Wavelength Range ³	nm		976
Center Wavelength Tolerance	nm		±3
Output Power ²	W	80	100
Spectral Width (FWHM)	nm		<5
Slope Efficiency	W/A	>1.6	>1.5
Wavelength Temp. Coefficient	nm/°C	~0.38	~0.38

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

Electrical Parameters ¹			
Power Conversion Efficiency	%		>40
Threshold Current (I_{TH})	A	<8.0	<7.5
Operating Current (I_{OP})	A	<60	<70
Operating Voltage (V_{OP})	V		<4

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
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	>180

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

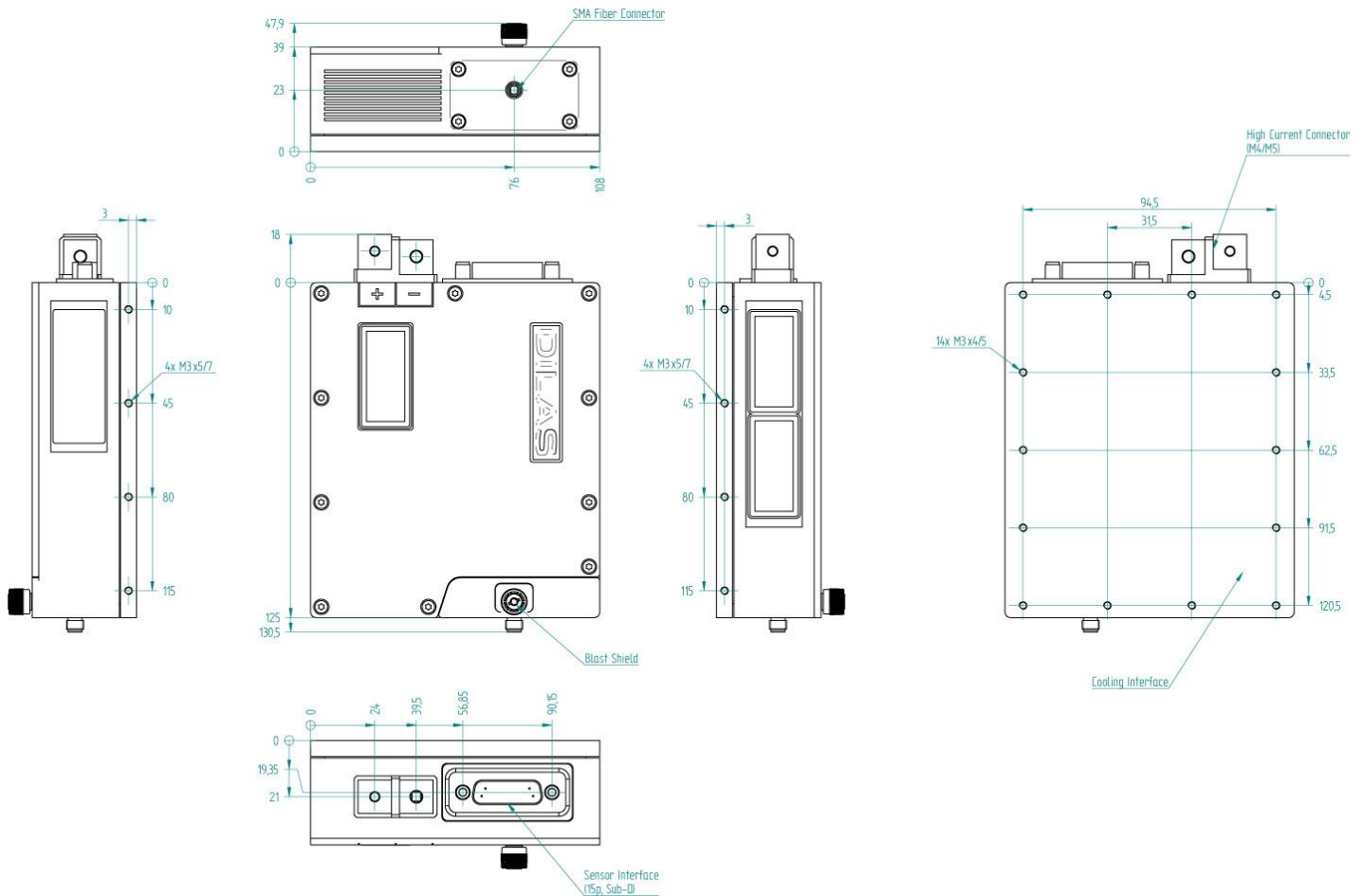
²Reduced lifetime if used above nominal operating conditions.

³Others available upon request.

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

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Package Dimension



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For complete details, please contact your local DILAS sales representative or visit our website at www.DILAS.com.

Europe
DILAS Diodenlaser GmbH
 Galileo-Galilei-Straße 10
 55129 Mainz
 Germany
 Phone: +49 (0)6131 9226 0
 Fax: +49 (0)6131 9226 257
 Email: sales@DILAS.de

North America
DILAS Diode Laser, Inc.
 9070 South Rita Road
 Suite 1500
 Tucson, AZ 85747
 Phone: +1 (520) 232-3480
 Fax: +1 (520) 232-3499
 Email: sales@DILAS-INC.com

China & Taiwan
DILAS Diodenlaser GmbH
 China Sales Office
 Room 206, Sunplus Technology, Bldg. 2
 No. 1077 Zu Chongzhi Road
 Hi-Tech Park, Shanghai 201203,
 P.R. China
 Phone: +86 (0) 21-6855-2216
 Fax: +86 (0) 21-5027-3793
 Email: sales@dilas-china.com.cn