

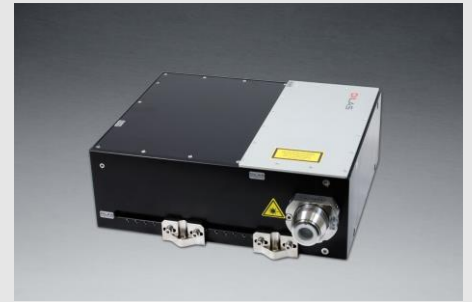
600W, 976nm, Fiber-Coupled, Conduction-Cooled, Tailored Bar Module

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
- Wavelength stabilization



Device Specification

Optical Parameters ¹		Units	
Center Wavelength ²	nm		976
Wavelength Tolerance	nm		±2
Output Power ^{3, 4}	W		600
Spectral Width (FWHM)	nm		<5
Slope Efficiency	W/A		>20
Fiber Parameters			
Fiber Core Diameter	µm	200	400
Numerical Aperture	NA	0.22	0.11
Fiber Connector ⁵			QBH
Electrical Parameters ¹			
Power Conversion Efficiency	%		>43
Threshold Current (I _{TH})	A		<3.5
Operating Current (I _{OP})	A		<40
Operating Voltage (U _{OP})	V		<50
Thermal Parameters			
Operating Temperature ^{2, 3, 6}	°C		+20 to +25
Storage Temperature ⁴	°C		+5 to +60
Coolant Flow Rate	l/h		600
Water Temperature	°C		+20 to +25
Purity			Tap Water

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

²Others available upon request.

³Reduced lifetime if used above nominal operating conditions.

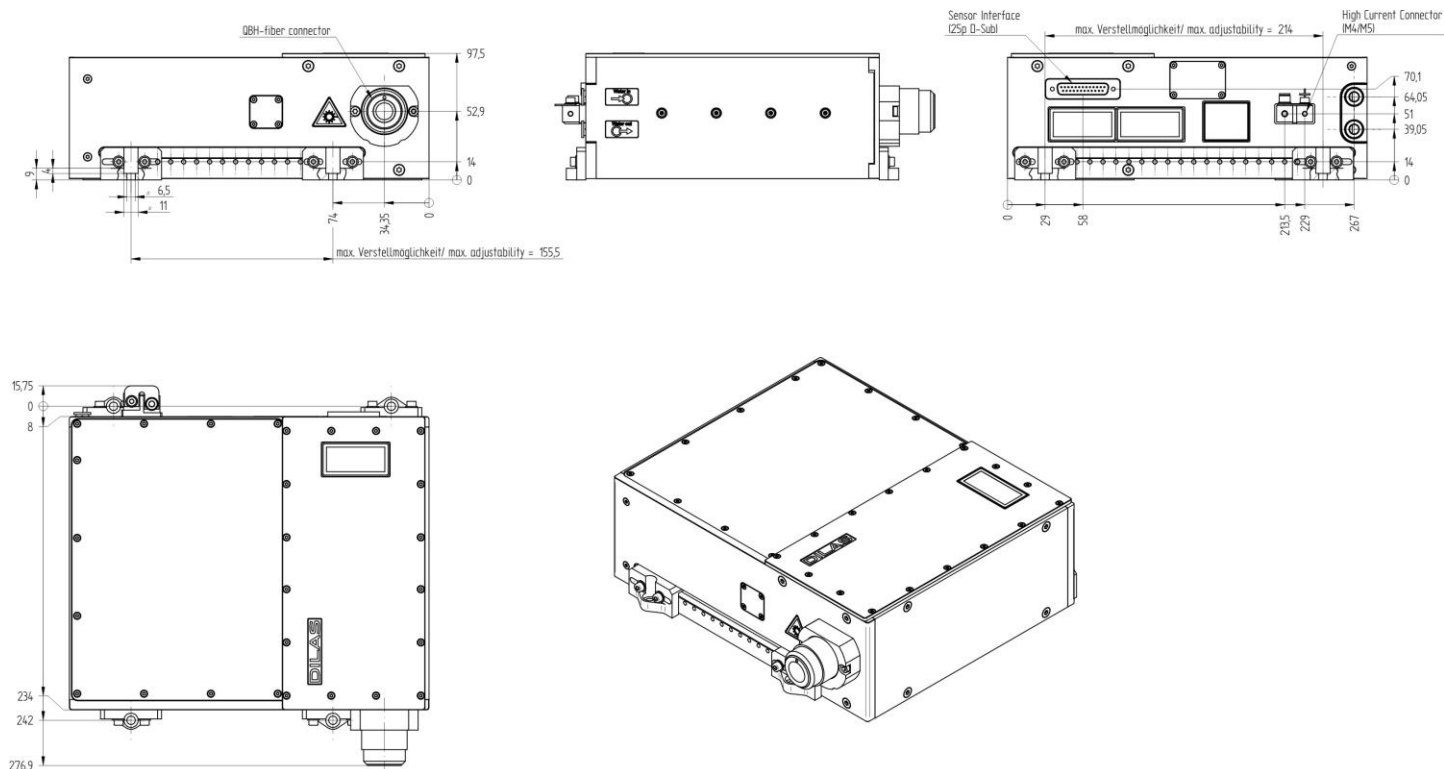
⁴For R&D purpose available up to 800W.

⁵For water cooling specifications of the fiber refer to the QBH fiber manual.

⁶A 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 (6131) 9226 0
Fax: +49 (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) 232-3484
Fax: +1 (520) 232-3499
Email: sales@DILAS-INC.com

Asia
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