

300W, 976nm, Fiber-Coupled, Conduction-Cooled, Tailored Bar Module

Features

- Conduction-cooled diode laser bars inside
- Single wavelength
- High coupling efficiency
- Scalable output power



Device Specification

Optical Parameters ¹	Units	
Center Wavelength ³	nm	976
Wavelength Tolerance	nm	±2
Output Power ²	W	300
Spectral Width (FWHM)	nm	<4.5
Slope Efficiency	W/A	>7
Wavelength Temperature Coefficient	nm/°C	0.38

Fiber Parameters		
Fiber Core Diameter	µm	200
Numerical Aperture	NA	0.22
Fiber Connector		OS SMA 0.5

Electrical Parameters ¹		
Power Conversion Efficiency	%	>43
Threshold Current (I _{TH})	A	<4
Operating Current (I _{OP})	A	<51
Operating Voltage (U _{OP})	V	<14

Thermal Parameters		
Operating Temperature ^{2, 3, 4}	°C	+20 to +25
Storage Temperature ^{3, 4}	°C	+0 to +55
Coolant Flow Rate	l/h	100
Water Temperature	°C	+20 to +25
Purity		Tap Water

Mechanical Parameters		
Size		See Drawing
Weight ⁵	kg	~0.3

¹Data at 23°C cold plate temperature, unless otherwise stated.

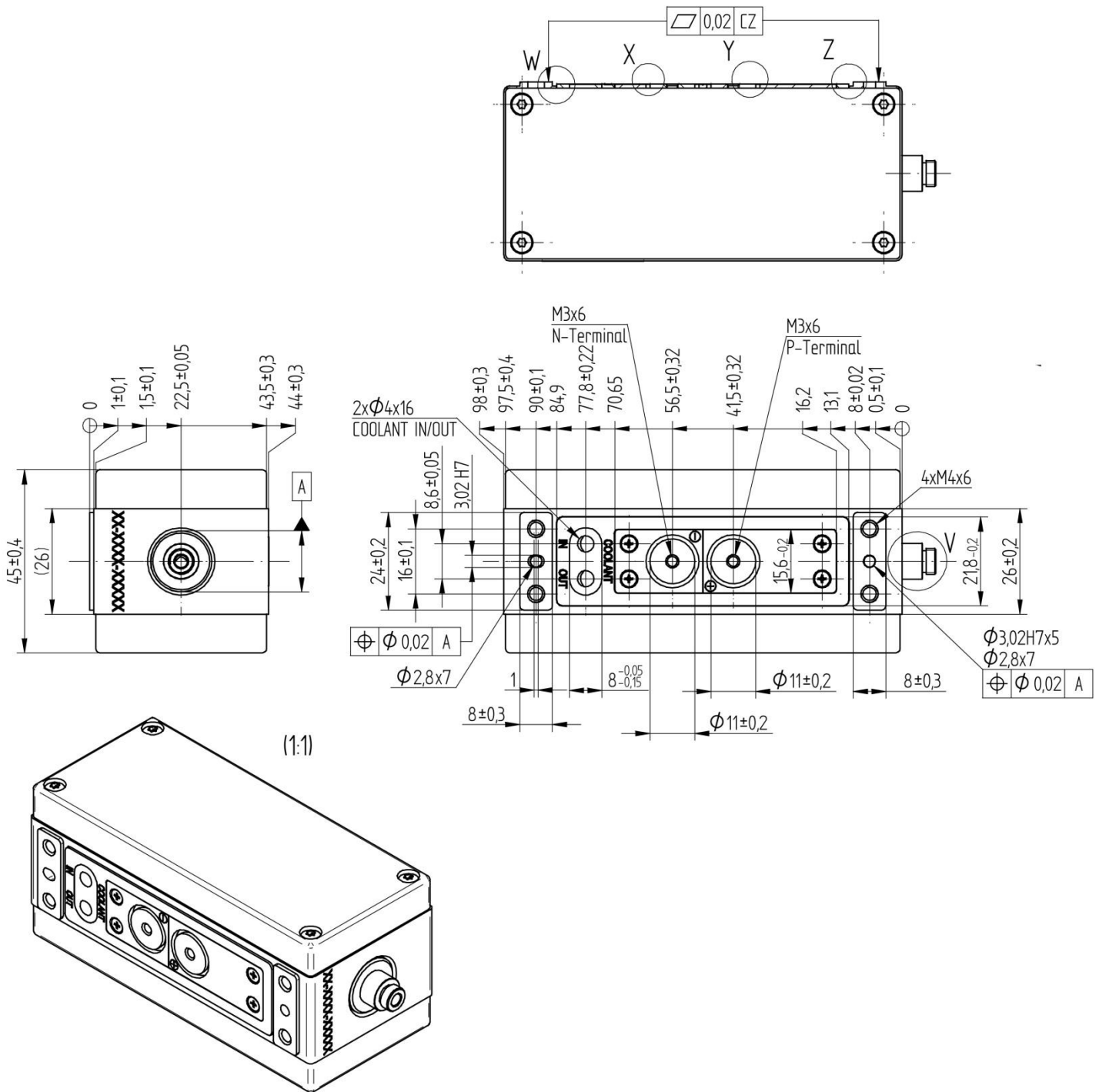
²Reduced lifetime if used above nominal operating conditions; 300W output only if both fiber ends AR coated.

³Others available upon request.

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

300W, 976nm, Fiber-Coupled, Conduction-Cooled, Tailored Bar Module

Package Dimension



©2013 DILAS. All rights reserved. DILAS reserves the right to change product specifications without notice. For handling precautions, please reference the general handling instruction manual.

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