ARIEL Photonics Assembly LTD, a subsidiary of ARIEL Photonics Inc.

4 Ha'Ma'ayan St. · LIGAD Center2 Bldg. · Lobby Floor · Modi'in 71700 · ISRAEL Fax: +972-8-9717991 · Tel: +972-8-9717990 · Direct: +972-54-3366602

Data Sheet Page 1 02/08/2015



FIBER LASER TORRENT-1064-20-PM-CW



*Wavelength 1064nm

* Polarization Ratio > 100:1

*Rated Power >20W

FEATURES

Low Noise: RMS < 1.0 %

PC Control: Current / Power Mode Lifetime > 30000 hours (Expected)

Good Power Stability: $< \pm 1.0 \%$

Line Width: <0.2 nm

Power Modulation: $0\sim100~\%$

CW Operation Air Cooling

APPLICATIONS

Laser for SHG / THG

3D Printer

Micro Processing

Measurement

Graphic Imaging

Printing (CtP)

Soldering

Marking

Sensing

Welding

ARIEL Photonics Assembly LTD, a subsidiary of ARIEL Photonics Inc. 4 Ha'Ma'ayan St. · LIGAD Center 2 Bldg. · Lobby Floor · Modi'in 71700 · ISRAEL

Fax: +972-8-9717991 Tel: +972-8-9717990 · Direct: +972-54-3366602



Data Sheet Page 2 02/08/2015

FIBER LASER SPECIFICATI	ONS MODEL: TORRENT 1064-20-PM-CW
Wavelength	1064 nm
Output Power	>20 W
Mode of Operation	CW
Transverse Mode	TEM ₀₀
Beam Quality M ²	<1.1
Polarization	Linear
Polarization Ratio	>100 : 1
R.M.S. Noise (1 Hz-10 MHz)	<1.0 %
Line Width	<0.2 nm
Warm-Up Time (90 % Power)	<1 minutes
Power Stability (25 °C Constant Temperature)	<±1.0 % / 8 hours
Power Stability (10 °C~50 °C)	<5.0 %
Fiber Delivery	PM
Fiber Length	2 meter
Beam Delivery	Collimated beam
Lifetime to 70 % Rated Power	>10000 hours
Environmental Condition (Operation)	Temperature 10 °C∼50 °C Humidity <90 % RH ¾1
Environmental Condition (Storage)	Temperature −10 °C ~60 °C Humidity <90 % RH ¾1
Vibration Resistance (Operation)	0.2 G (15~200 Hz)
Vibration Resistance (Storage)	$2 G (15\sim 200 \text{ Hz})$
Shock Resistance	15 G, 11 milliseconds ※2
Input Voltage / Frequency	AC90~264 V / 48~62 Hz
Dimensions	483mm (W) ×89mm (H) ×458mm (D)
	19" Rack, 2U
Weight	14.5kg
Cooling	Air
CDRH and IEC Laser Classification	Class IV and Class 4
Applied Standards	IEC60825-1 / 2007-03
	IEC61010-1 / 2010-03
	FDA 21 CFR PART 1040.10 (CDRH)

Specifications in this document subject to change without notice.

※1 : Non-Condensing **※**2 : During Transportation









IMPORTANT NOTICE: ALL SPECIFICATIONS, TECHNICAL DATA AND OTHER INFORMATION CONTAINED IN THIS DOCUMENT, AND ALL STATEMENTS ABOUT THE PRODUCT(S) IDENTIFIED IN THIS DOCUMENT, ARE PRELIMINARY IN NATURE AND ARE PROVIDED "AS IS," WITHOUT WARRANTY OR ASSURANCE OF ANY KIND. APA MAKES NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, REGARDING THE PRODUCT(S) OR THEIR SPECIFICATIONS. ALL INFORMATION IS SUBJECT TO CHANGE. PLEASE CONTACT APA FOR MORE INFORMATION. APA AND THE API LOGO ARE TRADEMARKS OF API. OTHER TRADEMARKS ARE THE PROPERTY OF THEIR RESPECTIVE OWNERS. COPYRIGHT API INC. ALL RIGHTS RESERVED.