

Key Features

- Wavelength 1040 to 1090nm
- Output power 5 to 20W
- Spectral width < 0.1nm
- Single mode, $M^2 \approx 1.1$
- OEM or Benchtop unit
- Operation Temp: 10 to 40°C
- Standard or All-PM version
- Efficient cooling system
- Optional Output collimator

Applications

- Optical Pumping
- Testing and Measurement
- Frequency doubling
- Gas sensing
- Lidar
- Interferometry & spectroscopy

SKYLINE SERIES

Also available amplifiers at different wavelengths with same high performance and compact footprint:

- ◆ STINGRAY-1550
- ◆ SCIROCCO-1950
- ◆ MISTRAL-2051
- ◆ HELIOS-2100

The **CYBEL VULCAN-BT-1064** series is a line of high power CW fiber lasers at a selected wavelength at 1064nm. The **VULCAN-BT-1064** comes with an output averaged power from 5 to 20W with a random or linear polarization and a single mode high beam quality, $M^2 < 1.1$. This laser is designed for industrial as well as R&D applications.

The **VULCAN-BT-1064** is a high efficiency and maintenance free fiber amplifier. This laser comes as a turn key benchtop instrument with either a standard or an all polarization maintaining (PM) fiber, and provides the user with stable and reliable performance. Output power and monitoring of key operating parameters such as, automatic current control (ACC) and automatic power control (APC) modes are controlled from USB port. OEM package is available.



Turn-Key Rack Mount Benchtop

VULCAN-BT-1064 Specifications

OPTICAL	Unit	Value	Comment
Wavelength range	nm	1040 to 1090	Other wavelengths available
Spectral width	nm	<0.1	
Output power	W	5 to 20	
Signal to noise ratio (OSNR)	dB	50	@Pout=5W
Output power stability	%	2	After 20min warm-up time
Polarization ext. ratio	dB	≥ 18	PM version
Max Modulation frequency	kHz	2	
Beam quality (M ²)	M ²	<1.1	
Output isolator		Optional	Output collimator as an option
In/out fiber length	m	1	3mm armored cable optional
Connector		FC/APC	Other connectors and Collimators available
ELECTRICAL			
Voltage	V	110-220	
Warm-up time	min	20	
Power consumption	W	200	@Pout max=20W
Control interface		USB	
Control mode		ACC-APC	
GENERAL			
Dimensions	inch	19	2U Rack mountable
Storage temperature	°C	-20 to 65	
Operating case temperature	°C	10 to 40	Cooling via forced air
Operating relative humidity	%	5 to 95	Non-condensing

CUSTOMIZATION

The **VULCAN-BT-1064** is a laser platform that can be customized to match Customers' specific requirements. Please contact Cybel.

COMPLIANCE with Regulatory Requirements: These benchtop products are Class 4 lasers as designated by the Center for Device and Radiology Health (CDRH). As such they are intended only in integration into other equipment and do not comply with CDRH requirement. It is the customer responsibility for CDRH certification of the full system that incorporates this industrial laser.



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