

### Key Features

- Output power 1 to 15W
- Linewidth < 0.1nm
- Wavelength: 1540-1600nm
- Single mode,  $M^2 \approx 1$
- Compact & rugged design
- Standard or All-PM version
- High Polarization Ext. Ratio
- USB interface
- Operation Temp: 10 to 40°C

### Applications

- Tm pumping
- Sensing
- Testing and Measurement
- Spectroscopy

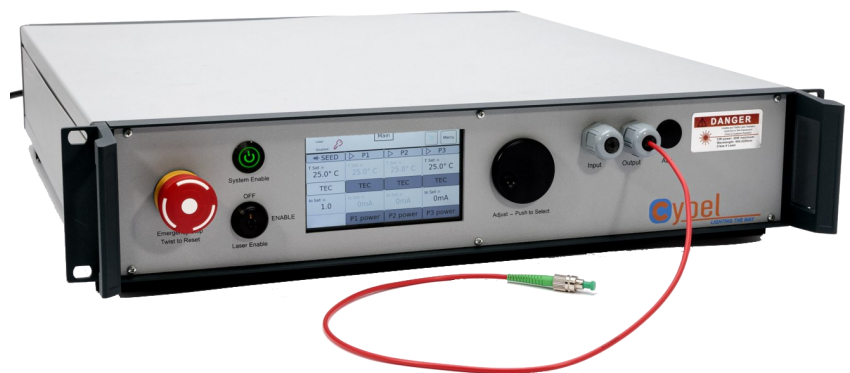
### SKYLINE SERIES

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-1550 is a CW fiber laser source with an output power of either 1 to 15W and a center laser wavelength at 1550nm. The wavelength can be customized from 1540nm to 1600nm. This laser is ideal for pumping Thulium doped fiber amplifiers and lasers. The output power is continuously adjustable and exhibits less than 1% power change over 6 hours. The VULCAN-BT-1550 can also be used in applications ranging from sensing to research & development and spectroscopy.

The VULCAN-BT-1550 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.

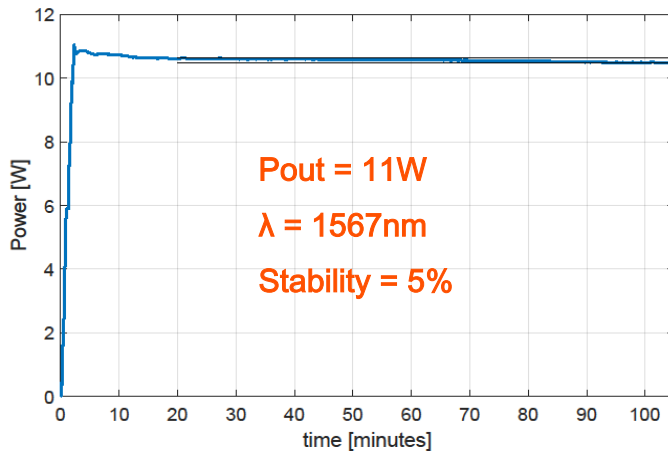


### Turn-Key VULCAN-BT 1550

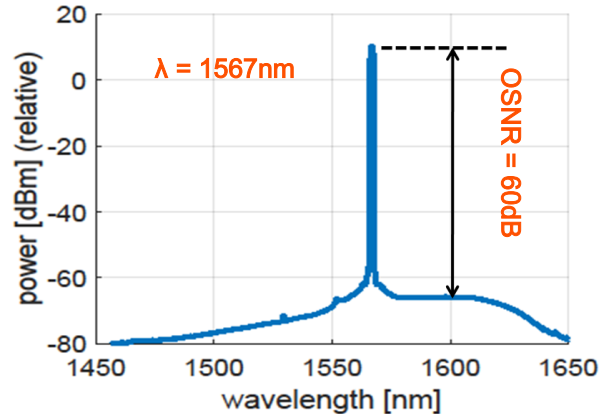
# VULCAN-BT-1550 Specifications

OPTICAL	Unit	Value	Comment
Wavelength	nm	1550	Custom 1540 to 1600nm
Output power	W	1 or 15	Higher power available
Spectral width	nm	0.1nm	Custom linewidth available
Polarization ext. ratio	dB	≥ 17	PM version
Beam quality (M <sup>2</sup> )	M <sup>2</sup>	<1.1	
Output isolator		Optional	
Output fiber length	m	1	Armored cable optional
Fiber		SM28 or PM	FC/APC connector
Monitor fiber length	m	1	Armored cable
Power consumption	W	25	@Pout max=1W
Control interface		USB	
Dimensions	inch	19 "	2U Rack mountable
Operating temperature	°C	10-40	
Humidity	%	5 to 95	Non-condensing

## VULCAN BT-10W



## Optical Spectrum



## CUSTOMIZATION

The VULCAN-BT-1550 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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