

### Key Features

- Output power 1 - 2 & 5 W
- Input power 1 - 20 mW
- Wide bandwidth 1750-1900 nm
- Single mode, single frequency
- Standard or PM fiber
- Polarization extinction ratio: 18 dB
- Beam quality:  $M^2 < 1.1$
- Output power variation  $\leq 3\%$
- 19" 2U Benchtop Available

### Applications

- Optical component testing
- Polymer processing
- Spectroscopy
- Bio-medical analysis
- OCT applications

### SKYLINE SERIES

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

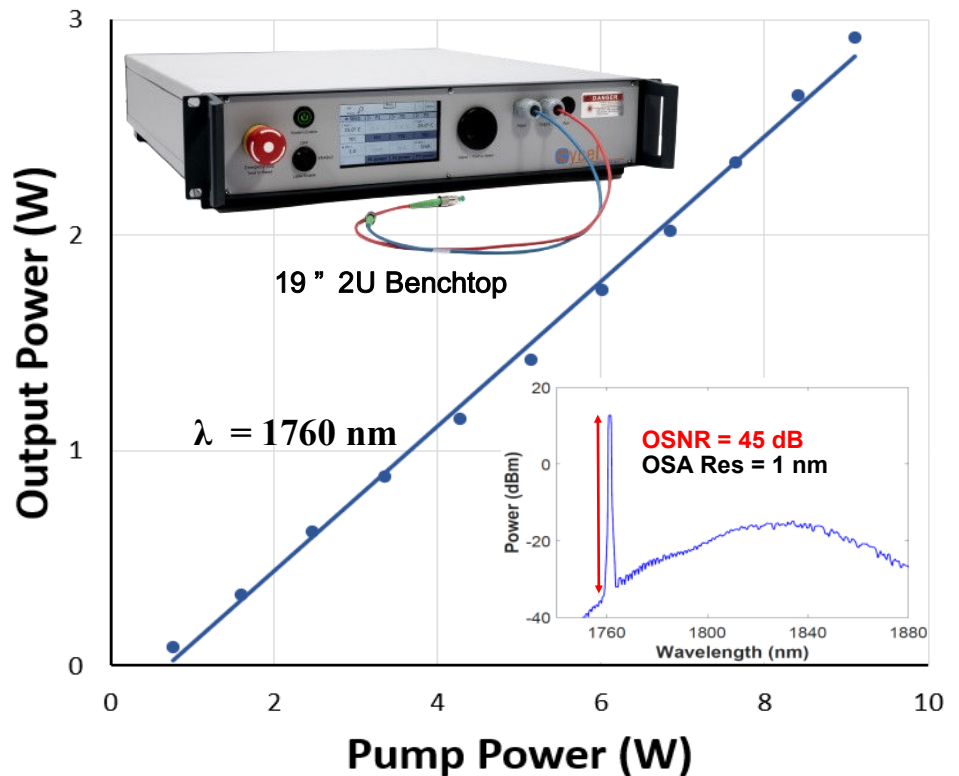
- ◆ ASE-1800
- ◆ STINGRAY-1550
- ◆ PERSEPHONE-1800
- ◆ PERSEUS-1800

The CYBEL PERSEUS-BT-AMP-1760 is a 1760 nm high power, single mode, single frequency amplifier that can deliver up to 5 W of saturated output power with a near diffraction limited output beam  $M^2 < 1.1$ , with other wavelengths available from 1750 nm to 1900 nm

The PERSEUS-BT-AMP-1760 comes either in a standard or polarization maintaining fiber configuration, that provides the user with stable and high performance output power.

Key operating parameters such as automatic current control (ACC) and automatic power control (APC) modes are controlled from either a RS-232 or USB port. PERSEUS-BT-AMP-1760 is available in OEM Skyline package (200x150x43 mm<sup>3</sup>) or 19" 2U benchtop rack mounting unit.

### PERSEUS-BT-AMP-1760 OUTPUT POWER



# PERSEUS-BT-AMP-1760 Specifications

OPTICAL	Unit	Min	Max	Comments
Optical Bandwidth	nm	1750	1900	Single Mode Operation Wavelength
Input Signal Linewidth	GHz	1		
Input Signal Power	mW	1	20	
Output Power	W	1	5	
Output Power Tunability	%	10 - 100		
Polarization Ext. Ratio (PER)	dB	18		PM Version
Output Beam quality (M <sup>2</sup> )		1.1		Diffraction Limited
Signal to Noise Ratio (OSNR)	dB	45		OSA Res. = 1 nm
Output Power Variation (RMS)	%	≤ 3		After 20 Min Warm-Up
Output Fiber Length	m	1		FC/APC Connector
Input Fiber Length	m	1		FC/APC Connector
Output Isolation	dB	20		Optional
Connectors		FC/APC		Other Connectors and Collimators Available
<b>ELECTRICAL</b>				
Voltage	V	110-220		@ 60/50 Hz
Warm Up Time	min	20		
Power Consumption	W	30		@ Pout Max= 5 W
Control Interface		RS-232		
Mode of Operation		ACC		APC Optional
<b>GENERAL</b>				
Dimensions	mm <sup>3</sup>	19"		2U Rack-Mount Benchtop
Storage Temperature	°C	-10 to 70		
Operating Case Temp.	°C	10 to 50		
Humidity	%	5 to 95		Non Condensing

## CUSTOMIZATION

The **PERSEUS-BT-AMP-1800** is an amplifier platform that can be customized to match Customers' specific requirements. Please contact Cybel.

**COMPLIANCE with Regulatory Requirements:** These OEM 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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