

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:

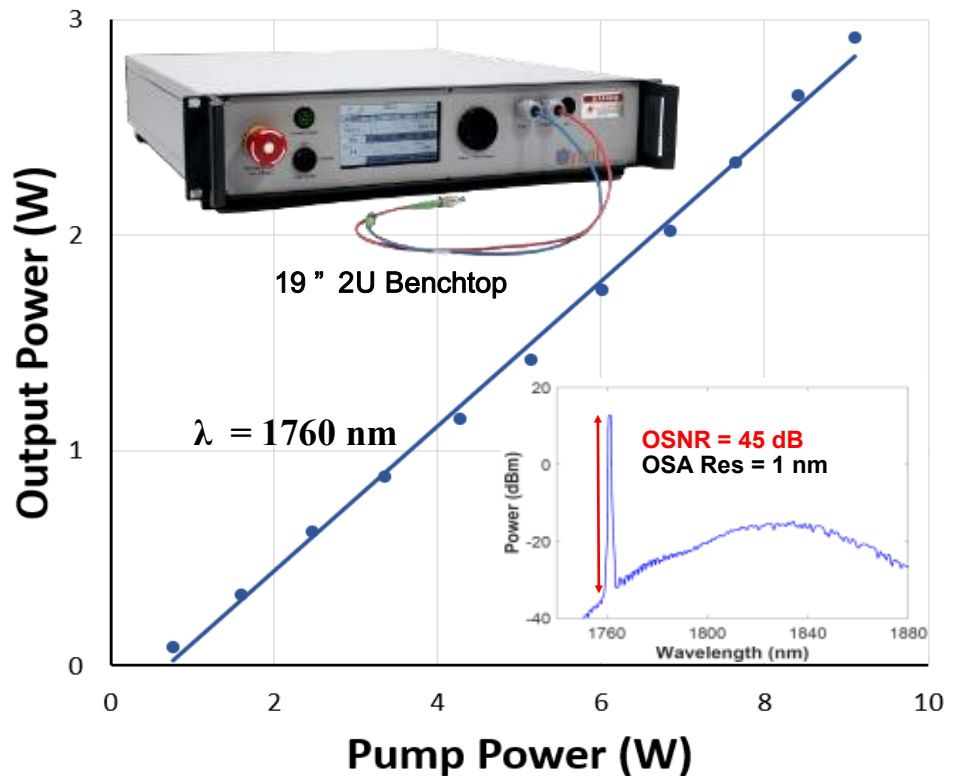
- ◆ ASE-1800
- ◆ STINGRAY-1550
- ◆ PERSEPHONE-1800
- ◆ PERSEUS-1800

The CYBEL PERSEUS-BT-AMP-1800 is a 1800 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-1800 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-1800 is available in OEM Skyline package (200x150x43 mm³) or 19" 2U benchtop rack mounting unit.

PERSEUS-BT-AMP-1800 OUTPUT POWER



PERSEUS-BT-AMP-1800 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 ²) | | 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 |
| ELECTRICAL | | | | |
| 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 |
| GENERAL | | | | |
| Dimensions | mm ³ | 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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