

### Key Features

- Output power 1, 2, 3 & 5 W
- Input power 1 - 20 mW
- Wide bandwidth 1700 - 1900 nm
- Single mode, single frequency
- Standard or PM fiber
- Polarization extinction ratio: 18 dB
- Beam quality:  $M^2 \approx 1.1$
- Output power variation  $\leq 3\%$
- OEM Available

### Applications

- Ba-ion Excitation
- Quantum Computing
- Optical component testing
- Polymer processing
- Bio-medical analysis

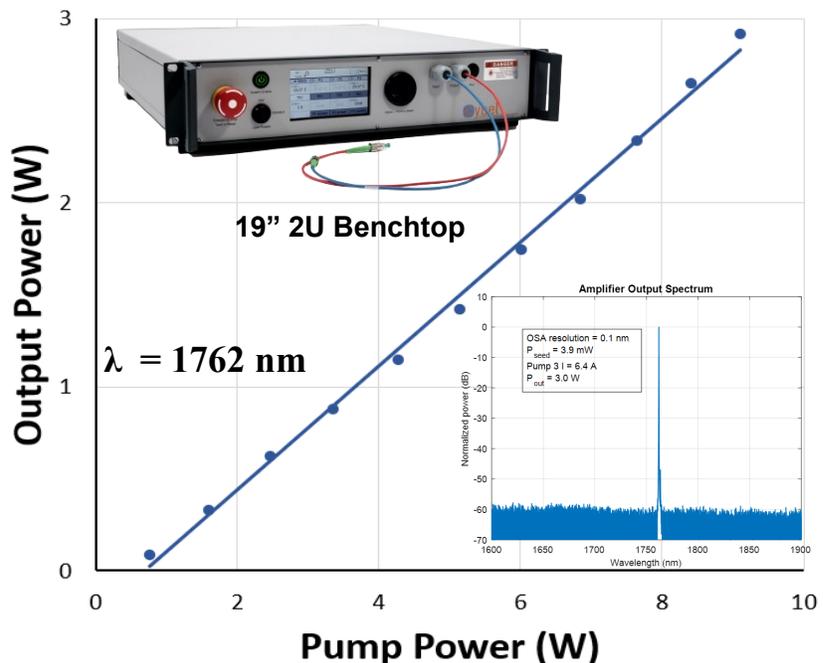
Also available at different standard wavelengths with high performance and compact footprint:

◆ ASE-1800

The **CYBEL PERSEUS-BT-AMP-1762** is a 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  $M^2 \approx 1.1$ , with other wavelengths available from 1700 nm to 1900 nm

The **PERSEUS-BT-AMP-1762** 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-1762** it is available in OEM Skyline package (200x150x43 mm<sup>3</sup>) or 19" 2U benchtop rack mounting unit.



### PERSEUS-BT-AMP-1762

# PERSEUS-BT-AMP-1762 Specifications

| OPTICAL                               | Unit           | Min       | Max  | Comments                                    |
|---------------------------------------|----------------|-----------|------|---|
| Optical Bandwidth                     | nm             | 1700      | 1900 | Single Mode Operation Wavelength            |
| Input Signal Linewidth                | GHz            | 1         |      |   |
| Input Signal Power                    | mW             | 1         | 20   |   |
| Output Signal Power                   | W              | 1         | 5    | With Pin=0 dBm(1 mW), higher Pout available |
| Output Power Tunability               | %              | 5 - 100   |      | At Pout = 3 W                               |
| Output mode, MFD                      | µm             | 10-11     |      |   |
| Polarization Ext. Ratio (PER)         | dB             | ≥ 20      |      | PM Version                                  |
| Output Beam Quality (M <sup>2</sup> ) | M <sup>2</sup> | 1.1       |      |   |
| 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              | > 0.7     |      | Longer Fiber at Request                     |
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| Output Isolation                      | dB             | 20        |      | Optional, External to the OEM               |
| Connectors                            |                | FC/APC    |      | Other Connectors and Collimators Available  |
| ELECTRICAL                            |                |           |      |   |
| Voltage                               | V              | 110-220   |      | @ 60-50 Hz                                  |
| Warm up Time                          | min            | 20        |      |   |
| Power Consumption                     | W              | < 150     |      | 25 °C, @Pout max = 3 W                      |
| Control Interface                     |                | RS-232    |      |   |
| Mode of Operation                     |                | ACC       |      |   |
| GENERAL                               |                |           |      |   |
| Dimensions                            | inch           | 19        |      | 2U Rackmount Benchtop                       |
| Storage Temperature                   | °C             | -10 to 65 |      |   |
| Operating Case Temp.                  | °C             | 0 to 35   |      |   |
| Humidity                              | %              | 5 to 95   |      | Non condensing                              |

## CUSTOMIZATION

The **PERSEUS-BT-AMP-1762** 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



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