

### Key Features

- Output power 1 to 5 W
- Spectral width  $\approx 2$  MHz
- Single mode,  $M^2 \approx 1.1$
- Compact OEM unit
- Operation Temp: 10 to 50 °C
- Standard or All-PM version
- Efficient cooling system
- Optional Output collimator

### Applications

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

### SKYLINE SERIES

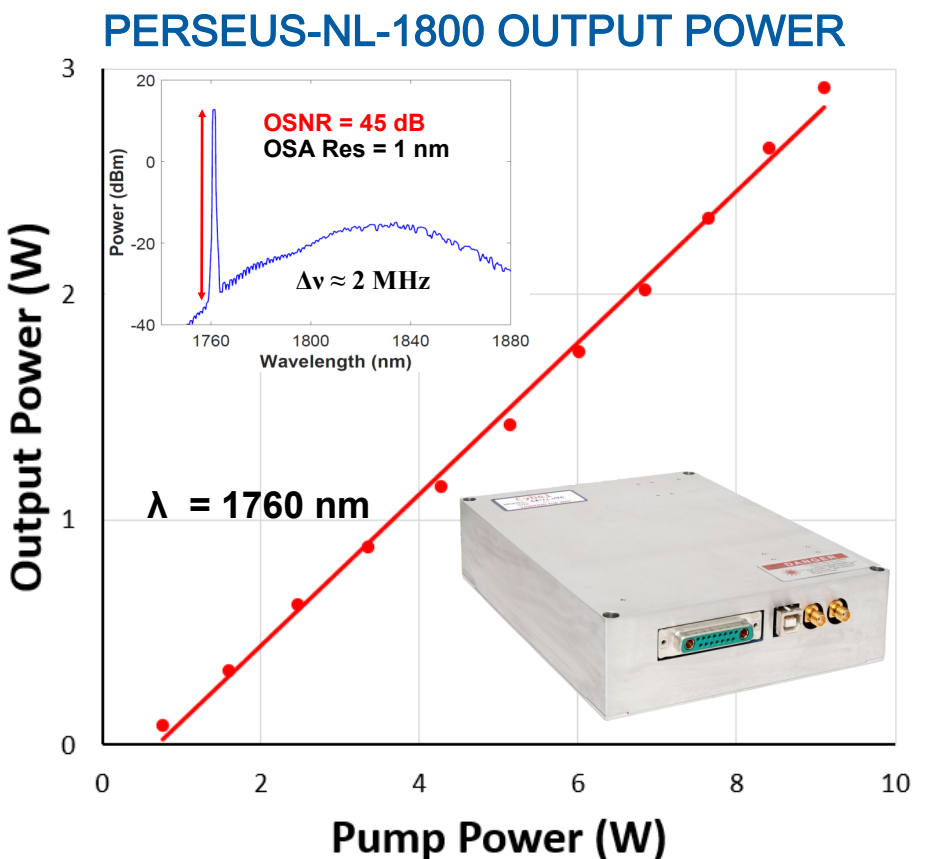
Also available amplifiers at different wavelengths with same high performance and compact footprint:

- ◆ ASE-1800
- ◆ PERSEUS-1800
- ◆ PRISM-2000
- ◆ HELIOS-2100

The CYBEL PERSEUS-NL-1800 series is a narrow linewidth ( $\Delta\nu \approx 2$  MHz) high power fiber laser at a selected wavelength from 1760 to 1900 nm,  $\Delta\nu \approx 10$  kHz is also available.

The PERSEUS-NL-1800 laser delivers up to 5 W of CW output averaged power with a random or linear polarization and a single mode high beam quality,  $M^2 < 1.1$

The PERSEUS-NL-1800 laser comes in an Skyline OEM package (200x150x43 mm<sup>3</sup>) with either a standard or a PM fiber. Both the output power and key operating parameters are controlled from a RS-232 computer interface.



# PERSEUS-NL-1800 Specifications

OPTICAL	Unit	Value	Comment
Wavelength	nm	1800	Other wavelengths available 1760-1900
Spectral Width	MHz	2	$\Delta v \approx 10$ kHz available
Output Power	W	1 - 5	Other Pout available
Output Power Tunability	%	10 to 100	
Polarization Ext. Ratio (PER)	dB	$\geq 18$	PM version, SM Optional
Beam Quality ( $M^2$ )		$< 1.1$	Diffraction limited
Signal to Noise Ratio (OSNR)	dB	45	OSA Res. = 1 nm
Output Power Stability (RMS)	%	3	After 20 min warm-up time
Output Fiber Length	m	1	FC/APC connector
Output Isolator	dB	20	Optional
Connector		FC/APC	Other connectors and Collimators available
<b>ELECTRICAL</b>			
Voltage	V	18 to 30	
Warm Up Time	min	20	
Power Consumption	W	70	@ Pout Max= 5 W
Control Interface		RS-232	
Mode of Operation		ACC	APC Optional
<b>GENERAL</b>			
Dimensions	mm <sup>3</sup>	200x150x43	W/O Heat Sink
Storage Temperature	°C	-10 to 70	
Operating Case Temp.	°C	10 to 50	
Humidity	%	5 to 95	Non Condensing

## CUSTOMIZATION

The **SKYLINE** is a laser 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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