



HIGH Power Fiber Technology



High Power Benchtop 1.5 μ m Amplifier

Features:

- Output Power up to +43 dBm
- Low Noise Figure
- RS-232 and GPIB interfaces
- Labview[®] drivers
- Wide display and easy access menus
- High reliability

Applications:

- Test and Measurements
- Booster Amplifier for Transmitters
- Sensor & LIDAR



The Manlight high power bench top amplifiers are optimized to offer high performance and low noise figure with proven reliability and quality. These amplifiers are intended to be used in various domains like high speed optical transmissions, booster amplifier for transmitters, sensors as well as test and measurement setups.

Featuring on board control electronics capabilities, these PM EDFAs can be operated in variety of control modes including Automatic Current Control (ACC), Automatic Power Control (APC) or Automatic Gain Control (AGC). Delivered with standard GPIB and RS-232 interfaces, these units offer a user-friendly interface ideal for PC-remote-controlled system experiments. Available in a 155.5 x 257 x 376 mm package.

Optical Characteristics

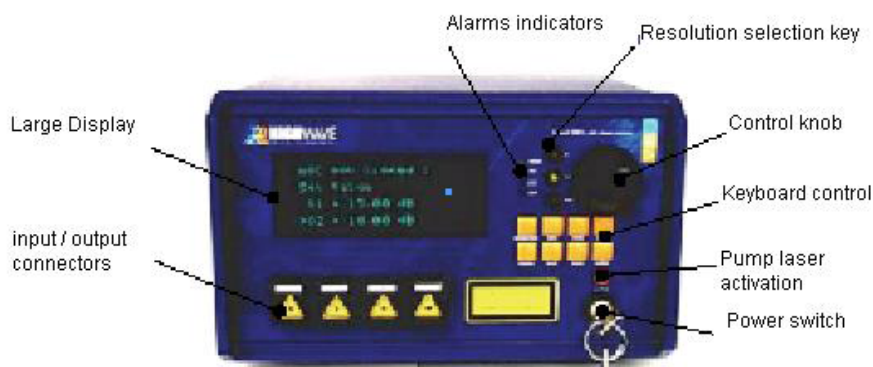
| Parameter | B27 | B30 | B33 | B37 | B43 | Unit |
|------------------------------|------------|------------|------------|------------|-------------|------|
| Wavelength Range | 1535-1565 | 1535-1565 | 1535-1565 | 1545-1570 | 1545 - 1570 | nm |
| Output Power | +27 | +30 | +33 | +37 | +40 | dBm |
| Input Power Range | -10 to +10 | -10 to +10 | -10 to +10 | -10 to +10 | -10 to +10 | dBm |
| Noise Figure @ 1550nm, +0dBm | 6.0 | 6.0 | 6.0 | 6.0 | 7 | dB |
| Polarization Mode Dispersion | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | ps |
| Optical Return Loss | 40 | 40 | 40 | 40 | 40 | dB |
| Polarization Dependent Gain | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | dB |

Electrical & Environmental Characteristics

| | | |
|----------------------------|--|----|
| Interface type | RS232 and GPIB | |
| Power Supply Voltage | 110-240, 50-60Hz | V |
| Operating Case Temperature | 10 to +45 | °C |
| Control modes | APC, ACC, AGC | |
| Alarms | Output power loss Pump bias alarm Pump temperature alarm | |
| Optical Connectors | SC or FC | |
| Mechanical Dimensions | 155,5 x 257 x 376 | mm |

Bench top Functionality

- Easy access menus with display
- Optical characteristics display: Output & Input Power
- Programmable operating point (Output power, Pump current)
- Electrical characteristics display: Laser currents, laser temperatures
- Alarms display
- Save and recall functions for easy restart



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