



# HIGH Power Fiber Technology

**MANLIGHT**  
Fiber Power

## High Power Polarization Maintaining Benchtop Amplifier

### Features:

- Output Power up to +40 dBm
- High Polarization Extinction Ratio
- RS-232 and GPIB interfaces
- Labview® drivers
- Wide display and easy access menus
- High reliability

### Applications:

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



The Manlight high power polarization maintaining 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 (polarization multiplexing), PM 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.

[www.manlight.com](http://www.manlight.com)

## Optical Characteristics

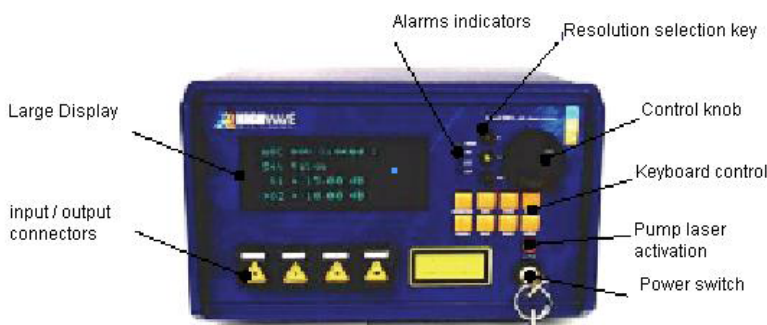
Parameter	PM27	PM30	PM33	PM37	PM40	Unit
Wavelength Range	1535-1565	1535-1565	1535-1565	1545-1570	1545 - 1570	nm
Output Power	+27	+30	+33	+37	+40	dBm
Input Power Range	-10 to +10	-10 to +10	-10 to +10	-10 to +10	-10 to +10	dBm
Polarization Extinction Ratio	20	20	20	20	20	dB
Noise Figure @ 1550nm, +0dBm	6.0	6.0	6.0	6.0	6.5	dB
Polarization Axis	Slow axis	Slow axis	Slow axis	Slow axis	Slow axis	
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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