



Padtec's optical amplifiers bring to the market more than 10 years of national development (CPqD/Padtec) on doped fiber optical amplifiers.

They cover a vast range of application: **boosters, line amplifiers and pre-amplifiers.**

Optical amplifiers manufactured by Padtec are completely manageable, either via Metropad platform, which integrates CWDM and DWDM technologies, or other management systems.

They are high reliability and performance devices, which are so necessary features to Telecommunication systems.

## Applications

Padtec's optical amplifiers meet applications in multiple telecommunication areas. They can be employed in long distance link implementation without repeaters, as optical repeaters and in sensitivity increase of optical systems.

## Common Technical Details

	Min.	Max.
Wavelength (nm)	1530	1560
Gain Flatness (dB)	-	1
PMD (ps)	-	1
PDG (dB)	-	1
Gain Stability (dB)	-	0.5
Optical Bandwidth (nm)	20	-
Input/Output Optical Isolation (dB)	35	-
Input or Output Port Return Loss (dB)	35	-
ASE Return Power (dBm)	-	-30
Output Pump Remaining Power (dBm)	-	-30
Operation Temperature (°C)	-5	65
Power Supply	48 VDC or 85/265 VAC	
Dimension (mm)	51.8 x 117 x 270	

## Specific Technical Details

	Booster 17		Booster 24		Line 17		Pre 14	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
Total Output Power (dBm)	17	-	24	-	17	-	14	-
Sensitivity (dBm)	-	-	-	-	-	-	-25	-38
Gain (dB)	23	-	23	-	30	-	35	-
Noise Figure (dB)	-	-	-	-	-	-	-	5.5
Consumption at 48 VDC (W)	15		35		10		10	