

CATV

50EYA 3U Series High Power Er/Yb Doped Fiber Amplifier



■ Performance characteristics

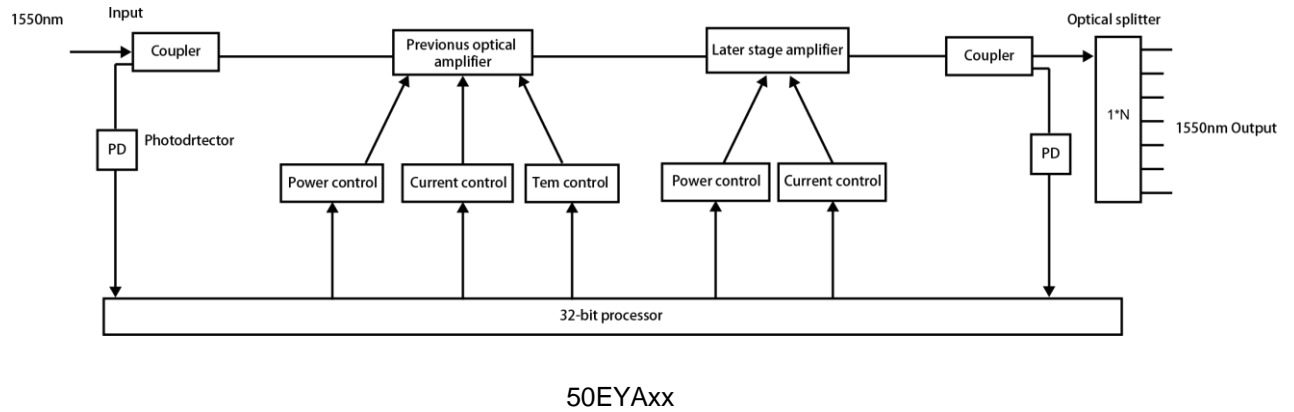
- ◆ Using erbium ytterbium co-doped double-clad fiber.
- ◆ Output power: max 20W (43dBm).
- ◆ Built-in low-noise preamplifier, without EDFA cascading, greatly reducing system CNR, MER degradation.
- ◆ Front panel buttons can be used to set and modify equipment performance parameters to meet customer's different network design requirements.
- ◆ Optional built-in optical switch module to facilitate the expansion of equipment.
- ◆ Output port optional: 32~128ports; optional WDM.
- ◆ Low noise figure: 0dBm input less than 5dB.
- ◆ Perfect network management interface,national standard SNMP network management.
- ◆ Using a dedicated server mature dual power supply hot backup structure, with only controlled by a microcomputer temperature control system, improve system reliability.
- ◆ Cooling fan support online replacement.
- ◆ 0.5~-4dB adjustable output power.
- ◆ 2.8-inch large TFT true color display, exclusive English menu display.

■ Applications

The 50EYAxx series high-power ytterbium optical amplifier is a high-power multi-output optical fiber amplifier with a gain spectrum bandwidth of 1535~1565nm. It is mainly designed for CAVT or 1~8 continuous strip channels (ITU wavelength) applications. It provides a flexible, low-cost solution for large-scale FTTH coverage of CAVT systems in large and medium-sized cities.

50EYAx can achieve single-wavelength cable TV transmission, CWDM single-fiber three-wave, flat-gain type, DWDM; its reliable and excellent performance ratio between the main application of FTTH, FTTB, DBS, MMDS, FTTX pon, is to build CATV large medium-sized optical fiber transmission network is an important equipment

■ Block diagram



■ Limited Parameters

Technical Data	50EYAx
Max wavelength	1535-1565nm
Minimum input power	-10dBm
Max input power	+10dBm
Limited working temperature	-25°C~+70°C
Limited working voltage	AC90~265V&DC30~72V

■ Technical parameters

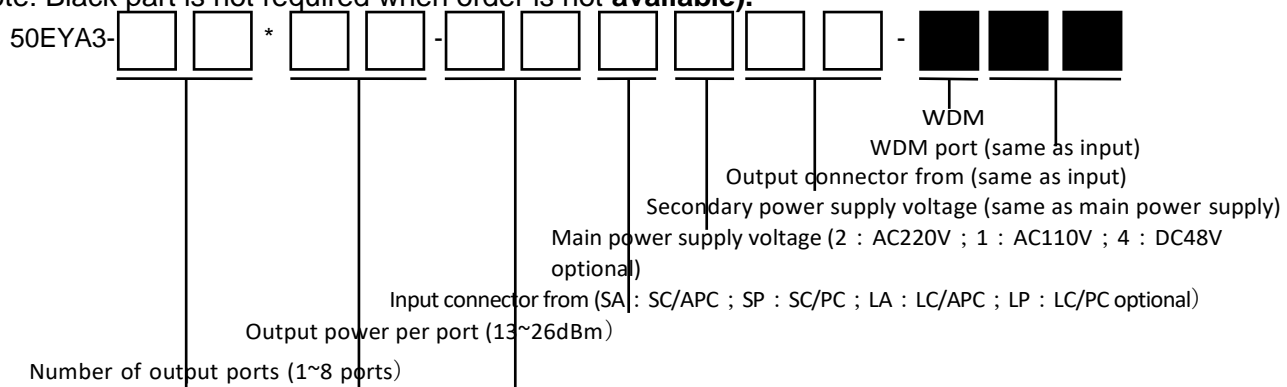
Technical parameters	50EYAx	Supplement
Bandwidth	1535~1565nm	
PON OLT working	1310/1490	Customized 1270/1577
Input optical power	-5dBm~+10dBm (normal input -2dBm~+5dBm)	
Max output power	43dBm	
Output power stability	±0.5dBm	
Noise	≤ 5.0dB	Input power 0dBm, λ=1550nm
Return loss	Input	≥ 45dB
	Output	≥ 45dB
Optical connector	SC/APC ; SC/UPC ; LC/APC ; LC/UPC	
C/N	≥ 50dB	Test conditions according to GT / T 184-2002
C/CTB	≥ 63dB	

C/CSO	≥ 63dB	implementation
Supply voltage	A:AC160V~250V(50Hz) ; B:DC48V (38-58V) ; C : AC110V (100-130V)	
Consumption	≤ 150W	
Working temp	-10°C~+42°C	
Maximum working relative humidity	Maximum 95% non-condensing	
Storage temp	-30°C~+70°C	
Maximum storage relative humidity	Maximum 95% non-condensing	
Device size	482(L)*482(W)*132.5(H)mm	
Package size	640(L)*640(W)*305(H)mm	

■ Model guide

3U chassis high power optical amplifier series products naming method:

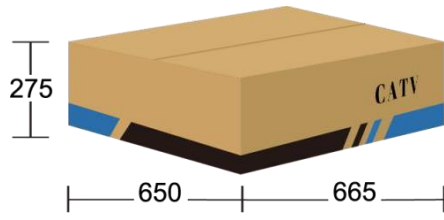
50EYA3-output port*each port power-input port optical connector+main power supply voltage+vice power supply voltage +output port optical connector+with WDM+WDM connector
 (Note: Black part is not required when order is not **available**).



Example : 50EYA3-32*22-SA24SA-WSU

Explanation: This is 50EYA 3U chassis optical amplifier device,32 output ports, each port output power is 22dBm, input optical connector is SC/APC, main power supply voltage is 220V. Vice power supply voltage is 48V, output port optical connector is SC/APC, with WDM, WDM connector is SCUPC.

■ Package & Label



1pc package

3U Ytterbium Erbium Fiber Amplifier

Model: 50EYA3
Power: 22dBm
Voltage: 220V AC
Desc.: 32*22-SA24SA-WSU
QTY: 1PC



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Product label