

# CATV

## 56EYA 1U Series High Power Er/Yb Doped Fiber Amplifier



### ■ Performance characteristics

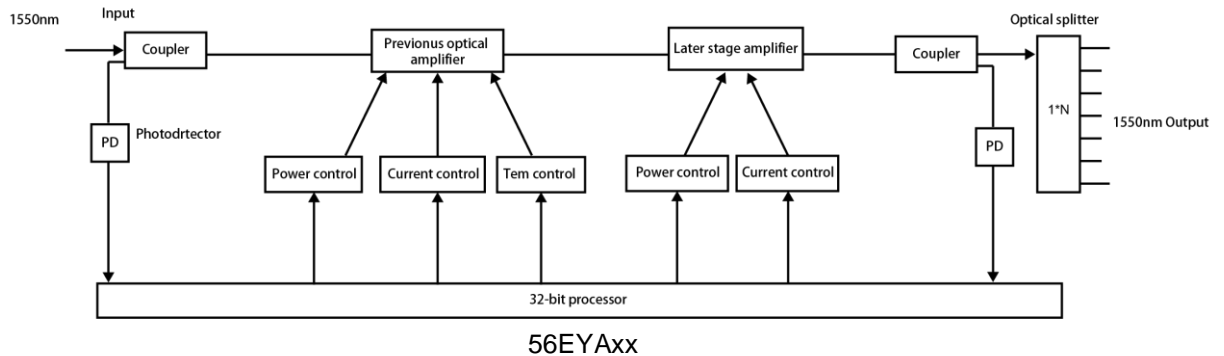
- ◆ Erbium co-doped double-clad fiber technology.
- ◆ Built-in low-noise preamplifier eliminates the need for EDFA cascading, greatly reducing system CNR and MER degradation.
- ◆ Output total power range: up to 23dBm ~ 37dBm (5W) optional.
- ◆ Output power adjustable range +0.5~-4dBm.
- ◆ Perfect network management interface, in line with SNMP network management protocol.
- ◆ Adopts a mature dual-power hot backup structure dedicated to servers, and cooperates with a microcomputer-controlled intelligent temperature control system to effectively improve system reliability.
- ◆ Adopt 144\*32 blue dot matrix LCD display to realize parameter on-site monitoring.
- ◆ The front panel indicator monitors and instructs the operating status of the equipment parameters in real time. Easy to find problems in time.
- ◆ Output port optional: SC connector 4 ~ 16 optional; LC connector 8 ~ 32 optional, optional WDM.
- ◆ The back panel can be flexibly removed and replaced according to the number of output ports.

### ■ Applications

The 56EYAxx series high-power optical amplifier is a high-power multi-port output fiber amplifier with a gain spectrum bandwidth of 1535~1565nm. It is mainly designed for applications of CATV or 1~8 continuous strip channels (ITU wavelengths). It provides a flexible, low-cost solution for large-scale FTTH coverage of CATV systems in large and medium-sized cities.

56EYAxx can achieve single-wavelength cable TV transmission, CWDM single-fiber three-wave, flat gain, 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



## ■ Limit parameter

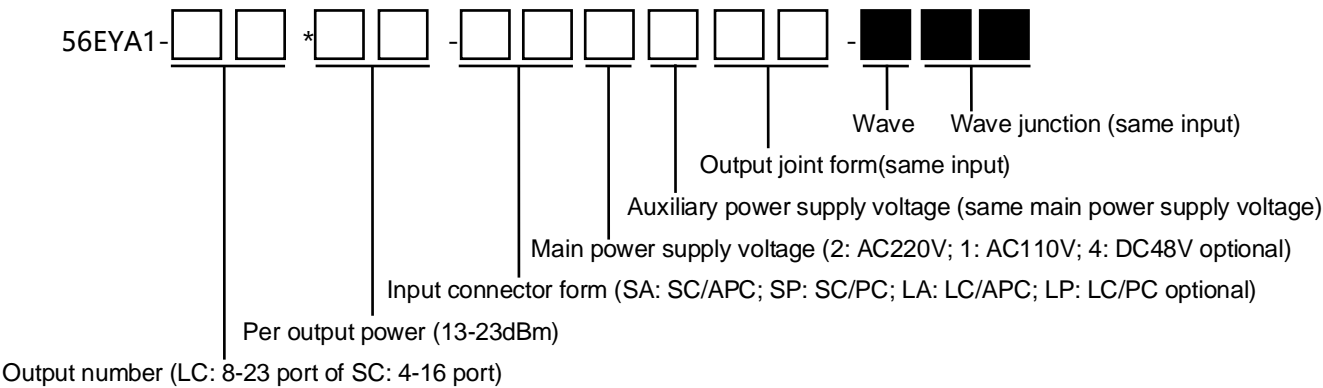
Technical parameters	56EYAx
Maximum received range	1535-1565nm
Lowest input optical power	-10dBm
The highest input optical power	+10dBm
Extreme operating temperature	-5°C ~+42°C
Limit supply voltage	AC90~265V or DC38~58V

## ■ Technical parameters

Technical parameters	56EYAx
Wavelength	1535-1565nm
Input power range	-5dBm~+10dBm (normal input -2dBm~+5dBm)
Output optical power	26dBm~37dBm
Optical power stability	±0.1dBm
Noise figure	≤ 5.0dB (Pin=0dB)
Input return loss	≥ 45dB
Output return loss	≥ 45dB
C/N	≥ 50dB
C/CTB	≥ 63dB
C/CSO	≥ 63dB
Optical connector	SC/APC; SC/PC; LC/APC; LC/PC
Supply voltage	AC110/220V(90V ~ 265V) or DC48V (38 ~ 58V)
Consumption	≤ 50w
Working temperature	-5°C ~+42°C
Storage temperature	-30°C ~ +70°C
Maximum working relative humidity	Max 95% non-condensing
Size	380(W)*482(L)*44(H)mm
Package size (1pc)	595(W)*490(L)*120(H)mm
Package size (2pcs)	595(W)*490(L)*230(H)mm

■ Model guide

56EYA1-Output port\*Per port output power-Input optical connector+Main power supply voltage+Sub power supply voltage+Output connector-with WDM+WDM connector **(Note:When the black box has no order requirement, do not write).**



Example: 56EYA1-16\*22-SA24SA-WSP

Explanation: This 1U device is the erbium and ytterbium Co doped high power fiber amplifier with 16 port output, output 22dBm, input connector SC/APC, main power 220V power supply, auxiliary power 48V power supply, output connector SC/APC, WDM, WDM joint SC/PC

■ Package & Label



1 pc/carton



2 pc/carton

**1U Ytterbium Erbium Fiber Amplifier**


**Model:** 56EYA1

**Power:** 22dBm

**Voltage:** 220V AC

**Desc.:** 8\*22-SA24SA-WSP

**QTY:** 1PC



19/10

Product label