

## FWA-1550DH-Series, High Power EDFA For Teaching



### 1. Product Description

FWA-1550DH series of high-power optical fiber amplifier EDFA for teaching is designed according to the characteristics of the teaching output optical power: 27 ~ 35dBm.

FWA-1550DH series of high-power optical fiber amplifier EDFA for teaching, uses advanced electronic control technology and complete software functions, the system can obtain excellent CNR by optimizing the optical path and minimizing the NF of EDFA. With a low-power 1550nm light source and feed input to FWA-1550DH series equipment, you can get a high-power light source with stable output for teaching use.

### 2. Product feature

- ◆ Top quality: Use 980nm laser as pre pump, while 1480nm as rear pump. With advanced electronic control technology and complete software functions, the system can obtain excellent CNR by optimizing the optical path and minimizing the NF of EDFA.
- ◆ 1 port high power output: 27 ~ 35dBm output power.
- ◆ Low noise figure: less than 5.5dB at + 5dBm input
- ◆ Wide gain spectrum: 1540 ~ 1565nm random or flattening is optional.
- ◆ High stability and high reliability:> 150,000 hours, 1U chassis type or 2U desktop chassis type are available.
- ◆ Reliability: Adopt 19" 1U standard chassis, built-in high performance modular switching power supply, can work in AC165 ~ 265V city network voltage. DC 48V hot-swappable power supply option is available as well. Dual hot and reserved power supply with Chassis automatic heat dissipation control.
- ◆ Intuitive: The built-in microprocessor monitors the working status of the pump laser, and the working parameters are displayed on LCD.
- ◆ Network management Interface: Web transponder is line with the national standard and compatible with the

SCTE HMS standard, achieving WEB monitoring function.

- ◆ Adjustable output optical power: power can be lowered by 0 ~ -3dBm.
- ◆ The working wavelength is C band, which meets the communication technology requirements of DWDM systems.

### 3. Technical Parameters

| Items                          | Unit | Performance Index                        |
|--------------------------------|------|--|
| Optical Operating Wavelength   | nm   | 1530~1565                                |
| Input Optical Power Range      | dBm  | -10~+10                                  |
| Nominal Input Power            | dBm  | +3                                       |
| 1 port Output Power            | dBm  | 27~35 (Output power can be customized)   |
| Noise Ratio                    | dB   | 5.0~6.0 (+3 dBm,@1550nM)                 |
| Gain Flatness                  | dB   | <±0.3                                    |
| Optical Power Output Stability | dB   | <±0.5                                    |
| Polarization Sensitivity       | dB   | <0.2                                     |
| Polarization Mode Dispersion   | ps   | <0.5                                     |
| Optical connector (IN)         |      | SC/APC                                   |
| Optical connector (OUT)        |      | SC/UPC                                   |
| Pump Operating Number          | N    | 2~3                                      |
| Power Supply                   | VAC  | 90~265 (Hot-pluggable dual power supply) |
|                                | VDC  | -48 (Hot-pluggable dual power supply)    |
| Working Temperature            | °C   | 0~50                                     |
| Case Size                      | mm   | 482.6×387×44                             |

### 4. Product model series

FWA-1550DH-27, Output power: 27dBm  
 FWA-1550DH-28, Output power: 28dBm  
 FWA-1550DH-29, Output power: 29dBm  
 FWA-1550DH-30, Output power: 30dBm  
 FWA-1550DH-31, Output power: 31dBm  
 FWA-1550DH-32, Output power: 32dBm  
 FWA-1550DH-33, Output power: 33dBm  
 FWA-1550DH-34, Output power: 34dBm  
 FWA-1550DH-35, Output power: 35dBm

