

Product Bulletin



S-Series

19-inch rack Erbium-Doped
Fiber Amplifier

S-2000 High Power EDFA

The S-2000 High Power EDFA is catered for high power booster and DWDM systems. It is capable of amplifying 32 channels simultaneously, which makes the S-2000 ideal for long distance DWDM networks. It allows the customer to customize the output power of the EDFA according to their power and channel count in a network. This 19-inch rack model is available for C-band region. It can be controlled either by LED indicators or LCD panel that displays the present status of the EDFA.

The S-2000 comes with software assisted controls that enable it to operate at three different modes - the **APC** (Automatic Power Control), **ACC** (Automatic Current Control) and **AGC** (Automatic Gain Control). These modes will be customized to user requirement. This model can be monitored remotely via RS232 or integrated to any available NMS. The Telcordia™ GR-1312CORE standards-compatible S-2000 comes with built-in sophisticated control electronics and monitoring outputs that could be easily integrated to any compatible telecom interfaces. Additional gain flattening feature is offered as optional.

Our technology is a patented optical design with minimum loss and optimum amplification performance. The software and control electronics has been designed for extremely precise monitoring and controlling of devices. It is designed to work in various network platforms.

Contact us for higher power and customized requirements.

Features

- Standalone design
- Transparent to wavelength add/drop
- Multi-channel amplification
- Low noise figure
- Large view LCD panel
- Microcontroller controlled
- Configurable constant output power
- Optional automatic gain control (AGC) features
- User-friendly monitoring via RS232 or TTL

Applications

- Booster and DWDM system
- Free Space Communication
- Boost tunable laser sources

Technical Specifications S-2000 High Power EDFA

Optical Characteristics

Parameter	Typical Value	Unit
Operating Region	C-band	-
Wavelength Range	1540 to 1560	nm
Output Power Level	17 to 20	dBm
Input Power Level	-20 to 4	dBm
Noise Figure	<6.0	dB
PDG	<0.5	dB
Gain Flatness	<0.5	dB
Return Loss (input & output)	>40	dB

Electrical Characteristics

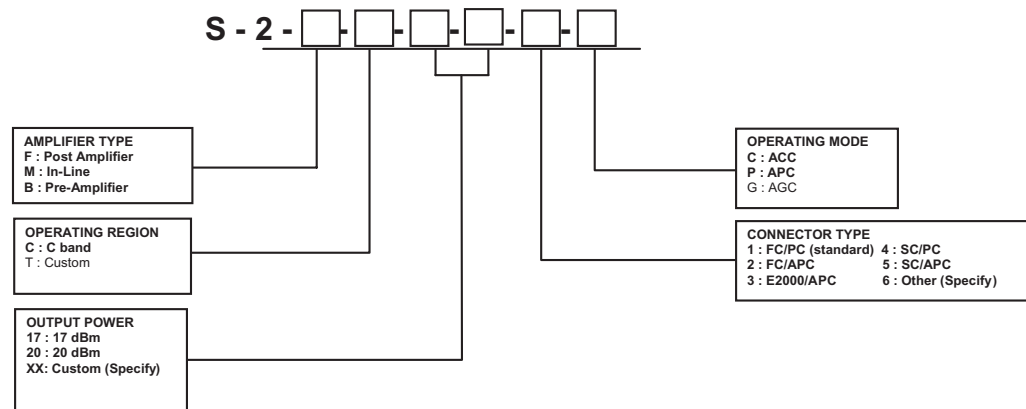
Parameter	Typical Value	Unit
Operating Voltage	100 to 240	VAC
	-48	VDC
Power Consumption	5.5	W
Pump drive current	400	mA/pump
Communication Interface	RS232 and TTL	-

Mechanical & Environmental Characteristics

Parameter	Typical Value	Unit
Dimension (W x L x H)	483.6 x 350 x 44.5	mm
Fiber Termination Type	FC, SC, ST, E-2000	-
Polishing Type	PC/APC	-
Operating Temperature	0 to 50	°C
Storage Temperature	-20 to 65	°C
Humidity (non condensing)	0 to 85	%
Weight	8.0	kg

Ordering Information

S-2000 High Power EDFA Product Code



Notes:

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