

AMP-FL82xx-SB

S-band

Optical Fiber Amplifier

Specifications



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• Preparations before use

This machine is warranted from any failure in normal operation as the machine is fully inspected mechanically and electrically before shipment from the factory. As soon as you receive the cargo, unpack and make certain that the machine is not damaged in transit.

1. Included Items

The standard included items are as follows. If any missing items are found upon inspection, contact us immediately.

| | |
|---------------------------------------|--|
| • Optical amplifier: | 1 unit |
| • Power ON/OFF key: | 2 pieces |
| • Power cord: | 1 piece |
| • Spare fuse: | 1 piece (stored in the fuse box of the AC inlet) |
| • Specifications (by these presents): | 1 copy (or CD) |
| • Operation Manual: | 1 copy (or CD) |
| • Programming Manual: | 1 copy (or CD) |
| • Final Test Inspection Record: | 1 copy |

We recommend that the carton box and the inner corrugated boards should be kept with care to avoid damage in case of reuse for transfer to another location.

2. Acceptance Inspection

(1) Mechanical movement check

As to external appearance, movement of the switch, the pump on button, the adjust dial, and connectors, carry out inspection under the condition of being the power supply off to look for possible damage or trouble caused in transit.

(2) Operation check

When no trouble is found upon mechanical movement check, carry out operation test to check functions, followed by the instructions of Operation Manual.

(3) Upon finding damage or anomalies

If, during acceptance inspection, damage to the machine or anomalies in connection with the specifications are found, contact us immediately with details of the trouble.

• **Standard specifications**

| Product No. | AMP-FL8221-SB | | AMP-FL8211-SB | | |
|---------------------------------------|---|---------------------------|---------------------------|---------------------------|---------------------------|
| | -19 | -16 | -20 | -16 | -13 |
| Signal Wavelength | 1470~1520nm | | 1460~1500nm | | |
| Maximum Output Power *1 | > +19 dBm ^{*1-2} | > +16 dBm ^{*1-2} | > +20 dBm ^{*1-1} | > +16 dBm ^{*1-1} | > +13 dBm ^{*1-1} |
| Gain *2 | > 30 dB ^{*2-2} | > 25 dB ^{*2-2} | > 25 dB ^{*2-1} | > 20 dB ^{*2-1} | > 15 dB ^{*2-1} |
| Noise Figure *2 | < 7 dB ^{*2-2} | | < 7 dB ^{*2-1} | | |
| Amplifier control | ACC / ALC | | | | |
| Monitor items | Input power / Output power / Pumping LD current / Pumping LD temperature / Case temperature | | | | |
| Safety function | Remote interlock | | | | |
| | Interlock with input Alarm | | | | |
| Remote control Interface | RS232C / IEEE488.1(GP-IB) | | | | |
| Input/Output Fibers | Corning SMF28 | | | | |
| Optical Connectors | FC/PC standard | | | | |
| Size *3 | 88(H)×260(W)×350(D)mm | | | | |
| Operation Temperature | 0~40 degreeC | | | | |
| Storage Temperature | -10~60 degreeC | | | | |
| Power consumption | < 60W | < 30W | | | |
| Weight | < 7 kg | | | | |
| Power Supply | AC 100-240V(50/60Hz) | | | | |
| Laser Class (Maximum Output Power) | Class 3B (< 200mW) | Class 3R (< 50mW) | Class 3B (< 200mW) | Class 3R (< 50mW) | |

*1-1: input power : > 0 dBm @1480 nm

*1-2: input power : > 0 dBm @1490 nm

*2-1: input power : -30 dBm @1480 nm

*2-2: input power : -30 dBm @1490 nm

*3: not including protrusions

* Including Input/Output isolator

• **Options**

| | |
|------------|--|
| Option 012 | FC / Angled PC optical connector |
| Option 013 | SC / PC optical connector |
| Option 014 | SC / Angled PC optical connector |
| Option 093 | Reflection from output port interlock (Reflected power monitor) |
| Option 121 | Rack mount kit * |

* Size of the type with "Option 121" is 88(H)×440(W)×350(D) mm.