

ASE-1590-100

L-band ASE Light Source

Specifications



2-1-15 Ohara, Fujimino, Saitama 356-8502, Japan
Phone: +81-49-278-7829, Facsimile: +81-49-263-9328
E-mail: info@fiberlabs.co.jp
Web: <https://www.fiberlabs-inc.com>

- **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

If any missing items are found upon inspection, contact us immediately.

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 is found, contact us immediately with details of the trouble.

• **Specifications**

Desktop type

Product No.	ASE-1590-100
Total Output Power	$\geq +20$ dBm (≥ 100 mW)
Wavelength	L-band
Spectral Power Density	≥ -2 dBm/nm @ 1570~1600 nm
Output Power Stability (Typical) *1	$\leq \pm 0.005$ dB ($\leq \pm 0.001$ dB)
Output Fiber	Corning SMF28
Optical Connector	FC / PC
Size *2	88 × 260 × 350 mm
Operation Temperature	0 to 40 °C
Storage Temperature	-10 to 60 °C
Weight	≤ 5 kg
Power Supply	AC 100 to 240V (50/60 Hz)
Laser Class (Max Output Power)	Class 3B Laser product (≤ 200 mW)

*1: 15minute after 1hour warm-up

*2: not including protrusions

• **Option**

Option 012	FC / Angled PC optical connector
Option 013	SC / PC optical connector
Option 014	SC / Angled PC optical connector

• **Standard attached items**

This instrument	1 unit
Power cord	1 pcs
Spare fuse	1 pcs (stored in the fuse box of the AC inlet)
Specifications (by these presents)	1 copy or CD
Operation Manual	1 copy or CD
Final Test Inspection Record	1 copy or CD

Module type

Product No.	ASE-Md1590-100
Total Output Power	Optical properties conform to the desktop type
Wavelength	
Spectral Power Density	
Output Power Stability (Typical) *1	
Output Fiber	
Optical Connector	
Monitor function	Output power / Pumping LD current / Pumping LD temperature
Alarm function *3	Output power / Pumping LD current
Control function	Pumping LD operation is shut down by TTL level L
Size *2	35 × 190 × 132 mm
Operation Temperature	0 to 60 °C
Storage Temperature	-20 to 70 °C
Weight	≤ 0.5 kg
Power Supply	DC 5.1 ~ 5.4 V ≤ 10 VA
Laser Class (Max Output Power)	Class 3B Laser product (≤ 200 mW)

*1: 15minute after 1hour warm-up

*2: not including protrusions

*3: Output power alarm : Decline of the output power (normal:H / alarm:L)

Pumping LD current alarm : Excess of the pump-LD current (normal:H / alarm:L)

* Refer to attached "Final Test Inspection Records" for detail of pin assigns & threshold values of alarm

• Option

Option 012	FC / Angled PC optical connector
Option 013	SC / PC optical connector
Option 014	SC / Angled PC optical connector

• Standard attached items

This instrument	1 unit (Attached flat cable)
Specifications (by these presents)	1 copy or CD
Operation Manual	1 copy or CD
Final Test Inspection Record	1 copy or CD