C-Band ASE Broadband Light Source

Amonics
Specialist in Optical Amplifiers

1550nm - CW

Key Features

- Wide spectral range
- High output power
- Good spectral stability
- Compact
- Good performance cost ratio
- Highly reliable and durable

Benchtop Casing



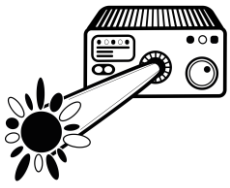
Description

Amonics C-band ASE light source features high output power, very wide spectral range and high stability against temperature change. It is available in both benchtop and module casings.

The benchtop version incorporates a user-friendly front panel housing with a LCD monitor display, key switch, power control knob and optical connectors. RS232 or Ethernet computer interface is also equipped.

The OEM module version is an ideal building block for OEM system integration, especially in fiber optic sensing and optical tomography applications. It requires a single +5V power supply only.

Application



- Optical tomography
- DWDM component characterization



- Fiber Optic Sensing

ISO 9001 : 2015
Certificate No.: CC 5346

Our product is manufactured under a HKQAA ISO 9001 certified quality management system. The ISO 9001:2015 certification applies to the Hong Kong production site only.

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C-Band ASE Specifications

Model	ALS-10	ALS-15	ALS-18	ALS-20	ALS-23
Output Power	Min. 10 dBm	Typ. 15 dBm, Min. 14 dBm	Typ. 18 dBm, Min. 17 dBm	Typ. 20 dBm, Min. 19 dBm	Typ. 23 dBm, Min. 22 dBm
Min. Spectral Density	-10 dBm/nm	-5 dBm/nm	-3 dBm/nm	0 dBm/nm	+2 dBm/nm
Spectral Range	1528 nm to 1564 nm	1528 nm to 1564 nm	1528 nm to 1564 nm	1528 nm to 1564 nm	1528 nm to 1564 nm
Output Stability	Max. ± 0.02 dB (over 8 hrs), Max. ± 0.005 dB (over 5 mins)	Max. ± 0.02 dB (over 8 hrs), Max. ± 0.005 dB (over 5 mins)	Max. ± 0.02 dB (over 8 hrs), Max. ± 0.005 dB (over 5 mins)	Max. ± 0.02 dB (over 8 hrs), Max. ± 0.005 dB (over 5 mins)	Max. ± 0.02 dB (over 8 hrs), Max. ± 0.005 dB (over 5 mins)
Output Isolation	Min. 40 dB	Min. 40 dB	Min. 40 dB	Min. 40 dB	Min. 40 dB
Output Degree of Polarization	Max. 5 %	Max. 5 %	Max. 5 %	Max. 5 %	Max. 5 %

Other output power models available upon request

Gain Flattened C-Band ASE Specifications

Model	ALS-10-GFF	ALS-15-GFF	ALS-18-GFF	ALS-20-GFF	ALS-23-GFF
Output Power	Min. 10 dBm	Typ. 15 dBm, Min. 14 dBm	Typ. 18 dBm, Min. 17 dBm	Typ. 20 dBm, Min. 19 dBm	Typ. 23 dBm, Min. 22 dBm
Min. Spectral Density	-10 dBm/nm	-5 dBm/nm	-3 dBm/nm	0 dBm/nm	+2 dBm/nm
Spectral Range	1528 nm to 1564 nm	1528 nm to 1564 nm	1528 nm to 1564 nm	1529 nm to 1564 nm	1529 nm to 1564 nm
Gain Flatness (peak-to-peak)	Typ. 1 dB, Max. 2 dB	Typ. 1 dB, Max. 2 dB	Typ. 1 dB, Max. 2 dB	Typ. 1 dB, Max. 2 dB	Typ. 1 dB, Max. 2 dB
Output Stability	Max. ± 0.02 dB (over 8 hrs), Max. ± 0.005 dB (over 5 mins)	Max. ± 0.02 dB (over 8 hrs), Max. ± 0.005 dB (over 5 mins)	Max. ± 0.02 dB (over 8 hrs), Max. ± 0.005 dB (over 5 mins)	Max. ± 0.02 dB (over 8 hrs), Max. ± 0.005 dB (over 5 mins)	Max. ± 0.02 dB (over 8 hrs), Max. ± 0.005 dB (over 5 mins)
Output Isolation	Min. 40 dB	Min. 40 dB	Min. 40 dB	Min. 40 dB	Min. 40 dB
Output Degree of Polarization	Max. 5 %	Max. 5 %	Max. 5 %	Max. 5 %	Max. 5 %

Other output power models available upon request

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General Parameters

	Benchtop	Module
Operation Temperature	0 to 40 ˚C	-5 to 55 ˚C (Case temperature)
Storage Temperature	-10 to 70 ˚C	-10 to 70 ˚C
Power Supply	90 – 240 VAC, 47 – 63 Hz	5.0 ± 0.1 VDC
Dimensions	260(W) x 330(D) x 120(H) mm	70(W) x 100(D) x 14(H) mm for ALS-10, 100(W) x 120(D) x18(H) mm for ALS-15, 120(W) x 200(D) x 25(H) mm for ALS-18, ALS-20, ALS-23
Electrical Connector	NA	14-pin MIL Socket
Protection	Pump laser (TEC) overheat	Pump laser (TEC) overheat
Optical Power Monitoring	Output power	Output power
Mechanical Safety Control	Key-lock switch, BNC interlock key	NA
Remote Control Port	RS232 / Ethernet	NA
Optical Connector	FC/APC, FC/UPC, SC/APC, SC/UPC	FC/APC, FC/UPC, SC/APC, SC/UPC
Optical Fiber	SMF-28	SMF-28

Ordering Information

Product Code	ALS-aa(-GFF)-b-cc	aa : Output power in dBm b : M for Module, B for Benchtop cc : FA for FC/APC, FC for FC/UPC, SA for SC/APC, SC for SC/UPC

Amonics undertakes continuous and intensive product development to ensure its product performance at the highest technical standards. As a result, the specifications in this document are subject to change without notice.

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