

## Key Features

- High output power
- High gain
- Low noise figure
- RS232 computer interface
- Highly reliable and durable

Benchtop Casing



2U Rackmount Casing



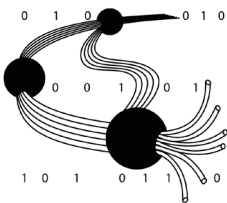
1550nm - CW

## Description

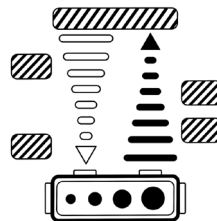
Amonics Raman Amplifier is a high-power laser light source for distributed optical amplification of optical signals in the C or L band.

The Raman Amplifier features 2 or 4 pumping wavelengths for gain flattened amplification. It is a ready-to-use optical amplifier equipped with a broadband pump/signal combiner and individual power monitoring for each channel. The Raman Amplifier is available in both benchtop and rackmount casings, as well as customized modules.

## Application



- SONET/SDH Systems
- Optical Communications
- CATV



- Fiber Optic Sensing



- Laboratory



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.

## Specifications

Model	ARA-C-500	ARA-C-800
Operating Wavelength	1525 nm to 1563 nm	1529 nm to 1562 nm
Optical Gain	Typ. 10 dB	Typ. 18 dB
Gain Flatness	Max. 2 dB	Max. 2.5 dB
Total Pump Power	Typ. 500 mW	Typ. 800 mW
Effective Noise Figure	Typ. -1.0 dB	Typ. -1.0 dB
Signal Insertion Loss	Typ. 0.7 dB	Typ. 0.7 dB
Degree of Polarization	Typ. 5 %, Max. 10 %	Typ. 5 %, Max. 10 %
Control Mode	ACC	ACC

\* Other output power models available upon request

## General Parameters

	Value
Operation Temperature	0 to 40 °C
Storage Temperature	-10 to 70 °C
Power Supply	90 – 240 VAC, 47 – 63Hz for benchtop and rackmount; 5.0 ± 0.1 VDC for module
Benchtop Dimensions	260(W) x 330(D) x 120(H) mm
1U Rackmount Dimensions	485(W) x 360(D) x 45(H) mm
2U Rackmount Dimensions	485(W) x 360(D) x 90(H) mm
Module Dimensions	156(W) x 210(D) x 33(H) mm
Mechanical Safety Control (for Benchtop and Rackmount)	Key-lock switch, BNC interlock key
Optical Power Monitoring	Output power, Total pump power
Remote Control Port	DB-9 female (RS232), Control software included, RJ-45 (TCP/IP Ethernet) (optional for benchtop and rackmount)
Protection	Pump laser (TEC) overheat
Optical Connector	FC/APC, FC/UPC, SC/APC, SC/UPC
Optical Fiber	SMF-28

## Ordering Information

Product Code	ARA-C-aaa-b-cc	aaa: Pump power, 500 for 500mW, 800 for 800mW b : B for Benchtop case, R for 19" Rackmount case, M for module 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.

### Amonics Limited (Hong Kong)

14/F, Lee King Industrial Building, 12 Ng Fong Street,  
San Po Kong, Kowloon, Hong Kong  
Tel :+852 2428 9723 Fax :+852 2428 9704

### Beijing Amonics Co. Ltd. (Beijing)

Room 902, Unit 1 Joy Mansion, NO.99 Chaoyang North Road, Beijing China 100123  
Tel :+86 10 8478 3386 Fax :+86 10 8478 3396  
Email: [contact@amonics.com](mailto:contact@amonics.com) Website: [www.amonics.com](http://www.amonics.com)

