

High Power Pulse Ytterbium Doped Fiber Laser

Key Features

- Turnkey device
- RS232 computer interface
- High output power
- Single mode fiber delivery
- Highly reliability
- Long operating life



2U Rackmount Casing

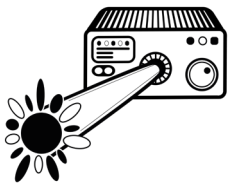


1060nm - Pulsed

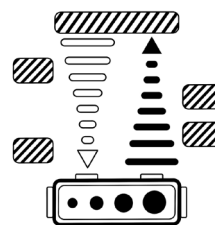
Description

Amonics' pulse YDLS can provide 1 μm short pulse with high optical pulse energy. By using large core specialty Ytterbium fiber, the detrimental effects such as pulse distortion due to gain transient and nonlinearities such as SBS and SRS can be highly suppressed. It is ideal for applications demanding laser emission with high pulse peak power. The applications of the YDLS include laser welding, material processing, biomedical treatments, and free space sensing as such airborne topographic lidars.

Application



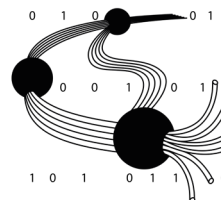
- Medical Systems
- Industrial Lasers



- Fiber Optic Sensing



- SHG Applications



- Phased and Interferometric Array Antenna



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.

High Power Pico-second 1064nm Specifications

Model	AYDLS-PS	AYDLS-PM-PS
Operating Wavelength	1064 nm \pm 1 nm*	1064 nm \pm 1 nm*
Saturation Output Power up to	+33 dBm	+33 dBm
Pulse Peak Power up to (No distortion)	1 kW	1 kW
Pulse Width	50 ps to 1000 ps	50 ps to 1000 ps
Pulse Repetition Rate	1 MHz to 100 MHz	1 MHz to 100 MHz
Output Isolation	Min. 20 dB	Min. 20 dB
Polarization Extinction Ratio	NA	Typ. 23 dB, Min. 20 dB
Control Mode	ACC, APC (Optional)	ACC, APC (Optional)
Optical Fiber	HI1060	PM1060

* Other wavelength or output power models are available upon request

High Power Nano-second 1064nm Specifications

Model	AYDLS-NS	AYDLS-PM-NS
Operating Wavelength	1064 nm \pm 1 nm*	1064 nm \pm 1 nm*
Saturation Output Power up to	+40 dBm	+40 dBm
Pulse Peak Power up to (No distortion)	10 kW	10 kW
Pulse Width	10 ns to 1000 ns	10 ns to 1000 ns
Pulse Repetition Rate	20 kHz to 100 MHz	20 kHz to 100 MHz
Output Isolation	Min. 20 dB	Min. 20 dB
Polarization Extinction Ratio	NA	Typ. 23 dB, Min. 20 dB
Control Mode	ACC, APC (Optional)	ACC, APC (Optional)
Optical Fiber	25/250	PM25/250

* Other wavelength or output power models are available upon request

High Power Pulse Ytterbium Doped Fiber Laser

General Parameters

	Value
Operation Temperature	0 to 40 °C
Storage Temperature	-10 to 70 °C
Power Supply	90 – 240 VAC, 47 – 63 Hz
Benchtop Dimensions	260(W) x 330(D) x 120(H) mm for AYDLS-PS and AYDLS-PM-PS
2U Rackmount Dimensions	485(W) x 515(D) x 150(H) mm or 485(W) x 360(D) x 90(H) for AYDLS-NS and AYDLS-PM-NS
3U Rackmount Dimensions	485(W) x 615(D) x 150(H) mm for AYDLS-NS and AYDLS-PM-NS
Control	Keylock switch, Optical output power
LCD Display	Output power, Pump laser current
Computer Interface	RS232 (Control software & connection cable included) / Ethernet (Optional)
Protection	Pump laser overheat warning
Optical Connector	FC/APC, FC/UPC, SC/APC, SC/UPC, Collimator, Bare fiber (No output connectors for output power >2W)
Optical fiber	HI1060 for AYDLS-PS and PM980 for AYDLS-PM-PS 25/250GDF for AYDLS-NS and PM-25/250GDF for AYDLS-PM-NS

Ordering Information

Product Code	AYDLS(-PM)-PS-aaa-bbb-cc-B-dd AYDLS(-PM)-NS-eee-fff-cc-R-dd	aaa : Pulse Width in ps eee : Pulse Width in ns bbb : Repetition Rate in MHz fff : Repetition Rate in kHz cc : Average Output Power in dBm dd : FA for FC/APC, FC for FC/UPC, SA for SC/APC, SC for SC/UPC, CL for collimator, NC for Bare fiber
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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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