

Key Features

- Pulse energy up to 150 μ J
- Eye-safe 1550nm operation wavelength
- Linear polarization emission
- Pulse duration from 100 to 1,000ns
- Pulse repetition rate from 10 to 20kHz
- Narrow linewidth available, down to 1.6kHz
- Low RIN & phase noise
- Wide operating temperature range from -10 to +65 °C
- Maintenance free
- Highly reliability

Description

Amonics' ALiDAR series is an eye-safe, single mode, linear polarized nanosecond-pulsed all fiber laser source with master-oscillator-power-amplifier. It is an ideal candidate for three-dimensional imaging, wind detection and ranging (LiDAR) system. ALiDAR series is maintenance free. No after installation service is required. ALiDAR is ideal candidate for LIDAR applications.

Applications

- Wind-speed measurement
- Range finder
- Pollution monitoring
- 3D imaging



ALiDAR Specifications

Parameter	Unit	Specification		
Product Code	-	ALiDAR-10-M-FA	ALiDAR-40-M-FA	ALiDAR-150-M-FA
Mode of Operation	-	Nano-second pulse		
Peak Power @ 200ns pulse width	W	Min. 50	Min. 200	Min. 700
Pulse Energy @ 200ns pulse width	μJ	Min. 10	Min. 40	Min. 150
Pulse Width	ns	100 to 1000	100 to 1000	100 to 1000
Repetition Rate	kHz	10 to 20	10 to 20	10 to 20
Wavelength	nm	1550 ± 0.2 (other wavelengths are available)		
Laser Linewidth	kHz	1, 3,15, 100		
Beam Quality M	-	Max. 1.1	Max. 1.3	Max. 1.4
PER	dB	Typ. 23, Min. 20	Typ. 23, Min. 20	Typ. 20, Min. 17
Pulse On / Off Ratio	dB	Typ. 100, Min. 80	Typ. 100, Min. 80	Typ. 100, Min. 80

General Environmental Parameters

Parameter	Unit	Specification
Operation Case Temperature	°C	-10 to +65
Storage Case Temperature	°C	-40 to +85
Power Supply	VDC	+12 ± 0.5
Dimensions	mm	Seed laser module: 300(W) x 200(L) x 80(H) Amplifier module: 300(W) x 200(L) x 80(H)
Power Consumption	W	Seed laser module: 30 Amplifier module: 54
LED Indicators	-	Power On, Case Temperature Overheat, Amplifier Enable
Computer Interface	-	RS232
Protection	-	Overheat Auto Shutdown
Cooling	-	Air cooling
Output Termination	-	Min. 30cm long 3mm tubing PM fiber with FC/APC connector or Collimator



Ordering Information

Product Code	ALiDAR-xx-M-FA	xx : Output Pulse Energy in μJ
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Amonics undertakes a continuous and intensive product development to ensure its products perform to highest technical standards. As a result, the specifications in this document are subject to change without notice.

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