Nanosecond Green Fiber Laser Unit
LAS-GFL-NS-00-U

Features

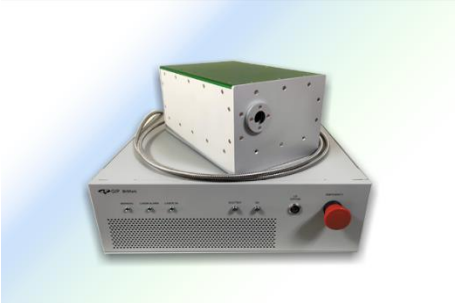
- Output power up to 3W
- Peak power up to 6kW
- Front panel status LED indicators for quick access of unit's status
- Excellent power stability
- Linear polarization
- RS-232 interface for local supervision.

Applications

- LIDAR
- Surface cleaning
- Mapping/3D scanning

Description

GIP Technology Nanosecond Green Fiber Laser Unit (LAS-GFL-NS-00-U) is designed to provide a combination of high power, high pulse energy, high stability, and ideal beam quality for environmental monitoring, 3D scanning, and industrial applications



The green pulse fiber laser contains a microcontroller for internal control, alarm, and RS232 communication. In addition, the laser can also be controlled by I/O, so the laser can also be used to integrate a galvanometer system. The above-mentioned interface makes the laser widely compatible.

These units also provide a user-friendly status monitoring via LED indicators, and GUI.

GIP Brightening Your Solutions

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Specifications

Optical Information		Unit	Description
Saturated output power	Max.	Watt	3
Mode of operation			Pulsed
Center wavelength*1		nm	532
Pulse repetition rate		kHz	40 ~ 500
Pulse duration			2 ~ 10
Pulse energy	Max.	μJ	35
Pulse power	Max.	kW	6
Beam quality	Max.	M^2	1.3
Output power stability*2	Max.	%	±2
Polarization			Linear
Power tunability		%	10 ~ 100
Cable length	Typ.	M	3
Output fiber termination			Free space, collimated beam
Electrical Information			
Operating voltage		Volt	100 ~ 240VAC, 50/60Hz
Control mode			ACC
Control interface			RS-232
External trigger signal			TTL3.3V
Environmental Information			
Ambient temperature		°C	15 ~ 35
Storage temperature		°C	0 ~ 60
Relative humidity (non-condense)		%	5 ~ 85 (operating)
Cooling			Air FAN + heat sink cooling
Mechanical Information			
Control Unit Dimensions (W x L x H)		mm	19” 3RU
Optical Head Dimensions*3 (W x L x H)		mm	190.4 x 288.4 x 143.2

*1. Saturated power is composed of optical signal, ASE power.

*2. Measured at 25℃, 4 hours after 30 minutes warm up.

*3. Without heat sink