

Features

- * Repetition rate up to 2MHz
- * Pulse duration down to 1ns
- * Integrated TEC controller
- * Build-in isolator
- * Maintenance free
- * Random or linear polarization
- * RS-232 interface for local supervision.

Applications

- * Laser seeding
- * LIDAR
- * 1D/3D sensing testing
- * Fiber laser

Description

GIP Technology 1.0 μ m Nanosecond Pulsed Light Source Unit (LIS-YLS-NS-LP-U) is a 1.0 μ m nanosecond pulsed light source, which directly modulates a cooled or uncooled laser diode to provide high peak power laser with pulse width as low as 1ns and pulse repetition frequency as high as 2MHz.

This LIS-YLS-NS-LP-U delivers precision pulses which generated internally by an on-board



pulse generator, or on-demand from an external TTL signal. It is compatible with most of the available laser diode form factors.

The LIS-YLS-NS-LP-U does not need water cooling or replacement parts, only 110/220V AC power supply or +12/+24 DC power supply is needed to obtain high energy and high peak power pulsed laser.

In addition, these units also provide a user-friendly status monitoring via an LCD display, LED indicators, and various communication interfaces (RS232).



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Specifications

Optical Information		Unit	Description	
Peak power ^{*1}	Max.	mW	400	800
Mode of operation			Pulsed	
Center wavelength ^{*2}		nm	1030 or 1064	
Pulse repetition rate		MHz	Single-shot ~ 2	
Pulse duration ^{*3}		ns	1 ~ 500	
Spectral linewidth	Max.	nm	0.3	5 ^{*4}
Polarization			Random or Linear	
Peak power tunability		%	10 ~ 100	
Output fiber length	Min.	M	1	
Connector			FC/APC	
Electrical Information				
Operating voltage		Volt	100 ~ 240VAC, 50/60Hz	
Control mode			ACC	
Control interface			RS-232	
External trigger signal			TTL 3.3V	
Environmental Information				
Operating ambient temperature		°C	0 ~ 50	
Storage temperature		°C	0 ~ 60	
Relative humidity (non-condense)		%	5 ~ 85 (operating)	
Cooling			Air cooling	
Mechanical Information				
Dimension (W x L x H) ^{*5}		mm	Benchtop	

*1. Depends on pulse width and pulse repetition rate.

*2. Other wavelength on request, such as 1045, 1050, 1080, and 1100nm... etc

*3. Calculated by full width at half maximum (FWHM).

*4. Narrow spectral linewidth on request

*5. OEM module versions available.