

TEMPERATURE-STABILIZED LIGHT SOURCE/PUMP LASER SYSTEM

(635nm, 650nm, 670nm, 685nm, 850nm, 980nm, 1310nm, 1480nm, 1550nm...)

Front Panel



Rear Panel



Product Descriptions

With on high accuracy automatic power control (APC) and automatic temperature control (ATC) technologies, PHOTONIK configures plug & play stabilized light sources or turnkey pump laser systems delivering super-stable output power and center wavelength in both short term and long term. These light sources can work at CW mode, internal modulation mode, and external modulation modes. The application covers in optical fiber sensor, optical testing, optical components manufacturing environment and testing, general R&D purpose in laboratories.

Key Features

- * Full range of LD/LED types and wavelengths are available
- * High stability of output power and center wavelength
- * Options with internal and/or external modulation

Main Applications

- * Optical fiber component manufacture & test
- * Optical communication system test

General Specifications

Parameter \ LD Type	LD/LED Multimode	LED/SLED Singlemode	LD(FP, DFB, VCSEL) Singlemode
Emission Band	635/650/670/685/850/915/980 1300/1310/1480/1550/1610nm	850/980nm 1310/1550m etc	635/650/670/685/850/915/980 1300/1310/1480/1550/1610nm
Central Wavelength(nm)	Per user specified	Per user specified	Per user specified
Spectrum Width(-3dB) (nm)	< 5 typ.	> 30 typ.; 120 max	< 5 typ(LD); <0.5(-20dB)(DFB)
Output Power(mW)	> 1	> 0.02 Min	> 1 typ.; 400mW Max
Short-Term Stability ¹		< ± 0.02dB over 15 min	
Long-Term Stability ²		< ± 0.10dB over 8-hrs	
Output Attenuation(dB)		0 ~ 5.9 (± 0.5), at 0.1dB step	
Operating Mode	CW Standard; Optional: Internal Modulation and/or External Modulation		
Internal Modulation(Digital)	Optional Part: Square wave at 270Hz, 1kHz, 2kHz (occupancy 50 ± 10%)		
External Modulation	Optional Part: Digital, analog (DC~10MHz, TTL level, BNC connector)		
Fiber Pigtail Type	Multimode Fiber	Singlemode Fiber	Singlemode Fiber
Output Connector	FC/UPC, FC/APC, SMA, or No connector		
Operating Temperature	0°C ~ 40 °C		
Storage Temperature	-20 °C ~ 70 °C		
Power Supply	AC 220V±10%, 50Hz, 20W		
Dimensions (LxWxH)	Benchtop: 280mm × 260mm × 112mm; Or per special request		

Remarks: Stability is tested at room temperature $23 \pm 2^\circ\text{C}$ after pre-heating of 60 minutes.

1. Test condition: fixed temperature, CW.
2. Test condition: temperature variation $\pm 2^\circ\text{C}$, CW.

Specifications on center wavelength, output power, attenuation range, control mode or interface, etc. can be configured per customer request.

Ordering Information

Users may specify:

1: LD/LED type; 2: Center Wavelength; 3: -3dB Bandwidth; 4: Output Power; 5: Fiber Type; 6: Casing Type; 7: Modulation Options; 8: Connector Type;



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