

DPSSL - Series (1064nm -IR Laser)

Diode-Pumped All Solid-State Lasers

PHOTONIK ^{hv}



**C.D.R.H Safety Regulations(FDA)
Compliant**

**Compact
Low Noise
High Stability
Medium-High Power**

MAIN APPLICATIONS:

- *Holography*
- *Raman Spectroscopy*
- *Interferometry*
- *Metrology*
- *Material processing*
- *Biotechnology*

General Specifications	P/N: PDP-1064- XX(Power) – XX(Option)
CW Output Power (mW)	10 ~ 2000
Output Wavelength (nm)	1064nm
Operation Mode	CW; TTL modulation(up to 10KHz)
Beam Transverse Mode	TEM ₀₀
Beam Diameter (1/e ² , mm)	0.8; 1.0; 1.5; 2.0; 3.0; ± 0.2
M ²	1.2 typ(for <1000mW); 1.5 max(for >1000mW)
Beam Divergence (full angle, mrad)	1.0 typ; 1.2 max
Power Stability	< ± 2% over 2 hrs
Point Stability (mrad)	< 0.05
Noise (P-P, 10-20MHz)	< 1%; (<0.5% @ 10Hz~1MHz)
Spectral Linewidth (nm)	< 0.1
Polarization Ratio	> 100:1 (Vertical typ; Horizontal optional)
Power Control Mode	Current control; Continuous control
Operating Temperature (base plate, °C)	0 ~ 40
Warm-up Time (minutes)	< 5
Expected Operating Lifetime (hours)	10,000
Laser Head Dimension (mm)	65(H) x 80(W) x 140(L)
Operating Voltage	110Vac; 220Vac; 50~60Hz
Driver Dimension (mm)	115(H) x 150(W) x 250(L)
Optional Modules	
(1) Beam Expander Module(-BE)	X2; x3; x4; x5; x6; x8; x10; x12; x15; x20.
(2) Beam Focuser(-BF)	With beam focusing tubes
(3) Fiber Coupling Module(-FC)	SMF-28, Flexcore-1060, Quartz core 100/200/300/400.../1000 large-core fiber etc available;
(4) Fiber Connector(-CN)	FC; SMA; ST;available
(5) Fiber Collimator Module(-CL)	Beam size: 4mm; 5mm; 10mm; 20mm....
(6) Fiber Splitter Module(-FS)	1 x 2(3/97; 10/90; 20/80; 30/70; 40/60; 50/50); 1x3(33/33/33); 1x4(25/25/25/25); 1x8.....

Photonik reserves the rights to update the product designs and specifications at any time without prior notice.

For order placement, create the part number and call us now;

Example: P/N: **PDP-1064-1000-FC(100)-FS(10/90)-CL(5)** is for 1000mW power, with fiber coupling module(100um quartz fiber core) and 1x2(10/90) fiber splitter, collimator output of 5mm beam size.

Contact Information:

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