

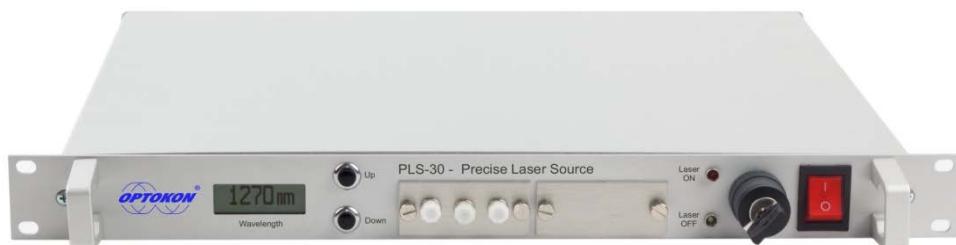
# PLS-30

## Precise Optical Light Source

### Description:

The PLS-30 includes the precise optical light sources designed for laboratory use. The customized design allows implementation of required optical sources in a 1U frame, which can be installed inside a 19" rack or used as a desktop in wide range of fiber testing systems.

The PLS-30 provides an automatic power control loop to keep output power constant. The light source output ports are available on the front panel in separate FC/APC (SM) or FC/PC (MM) connector adapters or in one common port, with a switchable wavelength using an internal optical switch. The removable connector adaptor design allows the simple exchange of optical output adapters and easy maintenance and cleaning of the output connector ferrule after removing the connector adaptor.



PLS-30-PC-OM2-LD85-88-91-94

### Features:

- Precise optical light source
- High number of wavelengths in 1U box
- Custom defined wavelengths
- Automatic output power control
- Removable output connectors

### Specifications:

Parameter	Multimode	Single mode
Wavelengths (nm)	635, 650, 850, 880, 910, 940	1270, 1290, 1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610, 1625, 1650
Wavelength accuracy (nm)	± 2.0	± 0.5
Stability <sup>1</sup> (nm)	15 min 24 hrs	± 0.2 ± 0.03 ± 0.5 ± 0.05
Output power (dBm)	up to +2 dBm	0 dBm
Accuracy (dB)	± 0.3	± 0.2
Dimensions (mm)	435 x 365 x 44 (W x D x H)	
Weight (kg)	3.5	

Note: 1) after 60 min warm up temperature 23 ± 1°

**Ordering Code:**

PLS-30	- XXX -	XX	- Light source
Output port <sup>1</sup>	Output fiber <sup>1</sup>		Wavelength
NPC FC/APC	OM2 MM, 50/125		
NSC SC/APC	S7A SM, 9/125 µm		
PC FC/PC			as below:
SC SC/PC			

Note: 1) SM – APC polished connectors, MM – PC polished connectors, other type on request

light source code	description		application
LD63	635 nm laser		
LD65	650 nm laser		
LD85	850 nm VCSEL laser		MM testing
LD88	880 nm VCSEL laser		
LD91	910 nm VCSEL laser		
LD94	940 nm VCSEL laser		
LD27	1270 nm DFB laser	LD47	1470 nm DFB laser
LD29	1290 nm DFB laser	LD49	1490 nm DFB laser
LD31	1310 nm DFB laser	LD51	1510 nm DFB laser
LD33	1330 nm DFB laser	LD53	1530 nm DFB laser
LD35	1350 nm DFB laser	LD55	1550 nm DFB laser
LD37	1370 nm DFB laser	LD57	1570 nm DFB laser
LD39	1390 nm DFB laser	LD59	1590 nm DFB laser
LD41	1410 nm DFB laser	LD61	1610 nm DFB laser
LD43	1430 nm DFB laser	LD62	1625 nm DFB laser
LD45	1450 nm DFB laser	LD65	1650 nm DFB laser

**Ordering example:**
**PLS-30-PC-OM2-LD85-88-91-94**

precise light source, multimode:

VCSEL lasers: 850 nm, 880 nm, 910 nm, 940 nm

1U rack mount frame

MM fiber 50/125 µm

FC/PC connector/adapters

**PLS-30-NPC-S7A-LD27-29-31-33**

precise light source, single mode:

DFB lasers: 1270 nm, 1290 nm, 1310 nm, 1330 nm

1U rack mount frame

SM fiber G.657.A1

FC/APC connector/adapters

 Other configuration possible, please contact: [sales@optokon.com](mailto:sales@optokon.com)