

## 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.



### 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)	1.port: 635 2.port: 650 3.port: 850, 880, 910, 940, 1300	1.port: 1270, 1290, 1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610 2.port: 1625 3.port: 1650
Wavelength accuracy (nm)	± 2.0	± 0.5
Stability <sup>1</sup> (nm)	15 min ± 0.2 24 hrs ± 0.5	± 0.03 ± 0.05
Output power (dBm)	up to -3 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  $23 \pm 1^\circ$

**Ordering code:**

**PLS-30**

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**XXX - - XX**

- **Light source**

<b>Output port<sup>1</sup></b>	
<b>NPC</b>	FC/APC
<b>NSC</b>	SC/APC
<b>PC</b>	FC/PC
<b>SC</b>	SC/PC

<b>Output fiber<sup>1</sup></b>	
<b>OM2</b>	MM, 50/125
<b>S7A</b>	SM, 9/125 μm

<b>Wavelength</b>
as below:

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

<b>light source code</b>	<b>description</b>		<b>application</b>	
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			
LD30	1300 nm laser			
LD27	1270 nm DFB laser	LD47	1470 nm DFB laser	SM testing
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-LD85-88-91-94-30**

precise light source, multimode: wavelengths: 850 nm, 880 nm, 910 nm, 940, 1300 nm  
1U rack mount frame  
MM fiber 50/125  $\mu$ m  
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)