

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-LD85-88-91-94-30

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 ¹ (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 ± 1°

Ordering Code:

PLS-30		-	XXX		-	XX		-	Light source	
Output port¹			Output fiber¹						Wavelength	
NPC	FC/APC		OM2	MM, 50/125					as below:	
NSC	SC/APC		S7A	SM, 9/125 μm						
PC	FC/PC									
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		MM testing
LD65		650 nm laser		
LD85		850 nm VCSEL laser		
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 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