

# 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 ± 0.2 24 hrs ± 0.5	± 0.03 ± 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:

<b>PLS-30</b>	-	<b>XXX</b>	-	<b>XX</b>	-	<b>Light source</b>
<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

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