

FPLD-XXXX

FPLD Light Source

Specifications



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• Preparations before use

This machine is warranted from any failure in normal operation as the machine is fully inspected mechanically and electrically before shipment from the factory. As soon as you receive the cargo, unpack and make certain that the machine is not damaged in transit.

1. Included Items

The standard included items are as follows. If any missing items are found upon inspection, contact us immediately.

• LD light source:	1 unit
• Power ON/OFF key:	2 pieces (only key switch type product)
• Power cord:	1 piece
• Spare fuse:	1 piece (stored in the fuse box of the AC inlet)
• Specifications (by these presents):	1 copy
• Operation Manual:	1 copy
• Final Test Inspection Record:	1 copy

We recommend that the carton box and the inner corrugated boards should be kept with care to avoid damage in case of reuse for transfer to another location.

2. Acceptance Inspection

(1) Mechanical movement check

As to external appearance, movement of the switch, the pump on button, the adjust dial, and connectors, carry out inspection under the condition of being the power supply off to look for possible damage or trouble caused in transit.

(2) Operation check

When no trouble is found upon mechanical movement check, carry out operation test to check functions, followed by the instructions of Operation Manual.

(3) Upon finding damage or anomalies

If, during acceptance inspection, damage to the machine or anomalies in connection with the specifications is found, contact us immediately with details of the trouble.

• Standard specifications

Product No.	Center wavelength (nm)	Output power (mW)			Spectral band width FWHM(nm)	Laser class (Max. output power)
		min.	typ.	max.	max.	
FPLD-1310-1.5	1310 +/-20	1	1.5	3	4	Class 1 (15mW)
FPLD-1310-10	1310 +/-20	7	10	12	6	Class 1 (15mW)
FPLD-1440-200	1440 +/-20	150	200	250	10	Class 3B(500mW)
FPLD-1490-150	1485 +/-20	130	150	180	10	Class 3B(200mW)
FPLD-1550-1.5	1550 +/-25	1	1.5	3	5	Class 1 (10mW)
FPLD-1550-10	1550 +/-25	8	10	15	6	Class 3R (20mW)
FPLD-1550-100	1550 +/-20	90	100	120	10	Class 3B (200mW)

• Common specifications

Laser structure	Fabry-Perot Cavity Laser
Optical fiber / connector	SMF FC/PC or FC / Angled PC optical connector (Refer to “Final Test Inspection Records”)
Size (mm) *1	66(H)×160(W)×230(D)
Operation temperature	0~40℃
Storage temperature	-10~60℃
Weight	2 kg
Power supply	AC 100-240V (50/60Hz)
Safety function	Remote interlock

*1 : Not including protrusions

• Option

No. - 011	FC / PC optical connector
No. - 012	FC / Angled PC optical connector
No. - 013	SC / PC optical connector
No. - 014	SC / Angled PC optical connector
No. - 141	Optical power control (Display: Optical power or Forward current)
No. - 142	Pulse modulation (1 ~ 1,000 Hz) (Display: LD current, Frequency and Duty ratio)

* The size of enclosure may be changed by option.