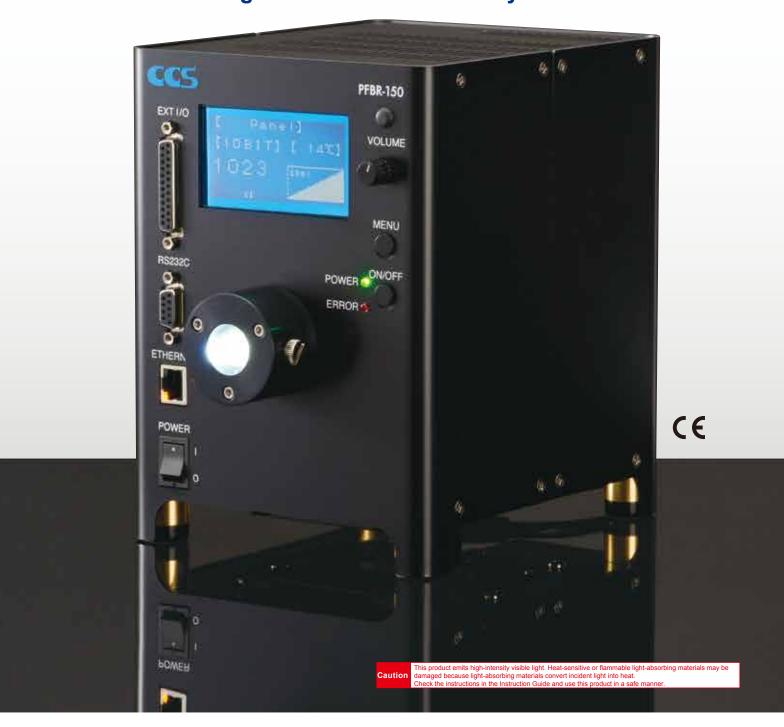




LED Light Source Unit PFBR-150SW Series

Provides light output that exceeds that of a 250-W metal halide light source

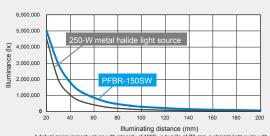
Achieves the highest level in the industry with 2 million lx



LED Light Source Unit PFBR-150SV

- Provides light output that exceeds that of a 250-W metal halide light source
- Ochieves the highest level in the industry with 2 million
 - * Actual measurement values with a bundle of Ø10 mm, a straight light guide with a total length of 1,080 mm installed, and at a position 50 mm away from the fiber output edge. (Results may vary for individual units.)
 - * Current as of our in-house inspection in Feb. 2014.

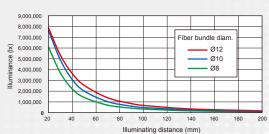
LED light source unit that exceeds a 250-W metal halide light source



Illuminating distance (mm)

Actual measurement values with intensity of 100%, a bundle of 08 mm, a straight light guide with a total length of 1,100 mm installed, and at positions at each illuminating distance away from the fiber output edge. (Results may vary for individual units.)

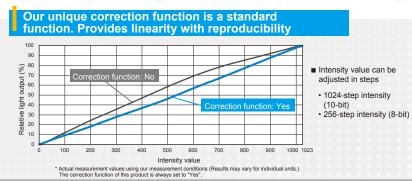
Optical design is optimized for all types of fiber to provide high output



Illuminating distance (mm)

*Actual measurement values with intensity of 100%, bundles of Ø8, 10, and 12 mm, a straight light guide with a total length of 1,080 mm installed, and at positions at each illuminating distance away from the fiber output edge. (Results may vary for individual units.)

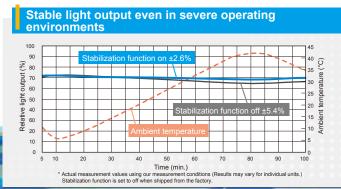
1,024-step intensity. Linear characteristics with reproducibility



Equipped with a light output stabilization (feedback) function

Our unique stabilization function maintains brightness fluctuation within ±3%. Functions effectively even when there are variations within the ambient operating temperature range.

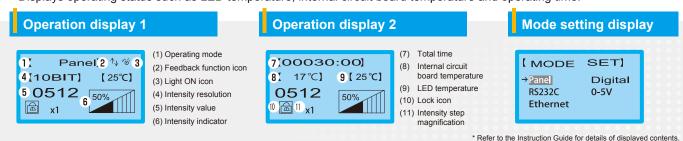
(Effective when used in the following range: Operating temperature of 5 to 40 °C and intensity value from 40 to 80%.)





Operating status can be monitored by using the monitoring function

Displays operating status such as LED temperature, internal circuit board temperature and operating time.

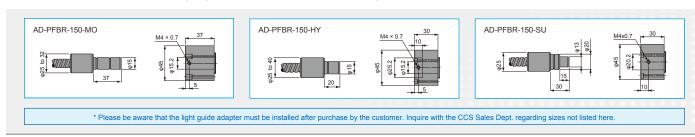


External control by use of a large variety of communication methods

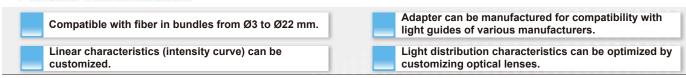


Standard compatibility with three types of light guides

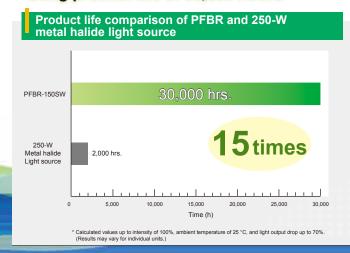
Check the dimensions of the light guide to be used before selecting an adapter. * Be careful as plastic fiber cannot be used.



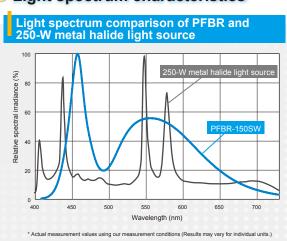
Flexible customization



Long product life of 30,000 hours



Light spectrum characteristics



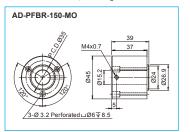
Specifications

Model	PFBR-150SW-MN
Applicable fiber bundle diameter	Ø8 to Ø14 mm
Light distribution angle	Total angle of 30°
LED color	White
Correlated color temperature (typ.)	6500 K
Drive method	Constant-current drive
Intensity control method	Variable-current control
Number of channels	1 channel
Input power supply	100 to 240 VAC (±10%), 50/60 Hz
Power consumption (typ.)	200 VA
Inrush current (typ.)	15 A at 100 VAC, 30 A at 200 VAC * From a cold start
Ground leakage current	3.5 mA max. (264 VAC, 60 Hz, with no load)
Insulation withstand voltage (Input-FG)	1,500 VAC for one minute, cutoff current: 10 mA, 50 VDC, 20 M Ω min.
Operating environment	Temperature: 5 to 40°C, Humidity: 20 to 80%RH (with no condensation) Altitude: 2,000 m max., Transient overcurrent: Category II, Pollution level: 2
Storage environment	Temperature: -15 to 60°C, Humidity: 20 to 85%RH (with no condensation)
Cooling method	Forced cooling
CE marking	Safety standard: EN61010-1 compliant EMC standard: Complies with EN61000-6-2 and EN61000-6-4
Environmental regulations	RoHS compliant
Material, coating, and surface processing	Aluminum alloy (black alumite)
Weight	3.9 kg max.
Accessories	One Instruction Guide and one 2-m 3-prong AC power cable with ground terminal

Options

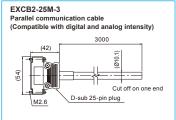
Light guide adapters

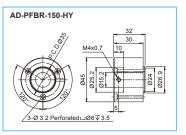
Accessories: One light guide lock screw, three hexagon socket bolts, one hexagon wrench

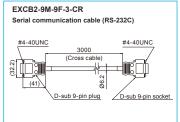


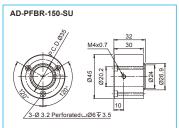
External control cables

Select an appropriate cable according to the communication method. \\



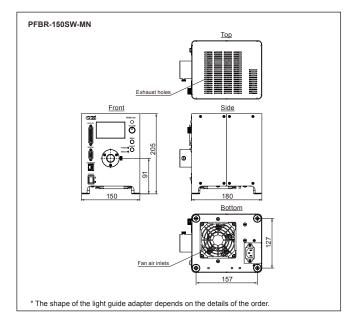






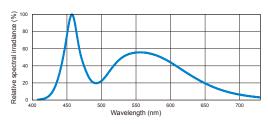
- A light guide adapter is not provided with this product. Order one separately.
- Inquire with the CCS Sales Dept. regarding the light guide adapter not described here.

Dimensions (mm)

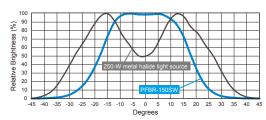


Data

Light spectrum characteristics



Light distribution characteristics of fiber output edge



*Actual measurement values with intensity of 100%, a bundle of Ø8 mm, a straight light guide with a total length of 1,100 mm installed, and at a position 600 mm away from the fiber output edge. (Results may vary for individual units.)

• "CCS", "LIGHTING SOLUTION", and "PFBR" are registered trademarks or trademarks of CCS Inc.

CAUTION

• To use this product safely and correctly, be sure to read the Instruction Guide before use. • The design of this product is subject to change without notification.

