

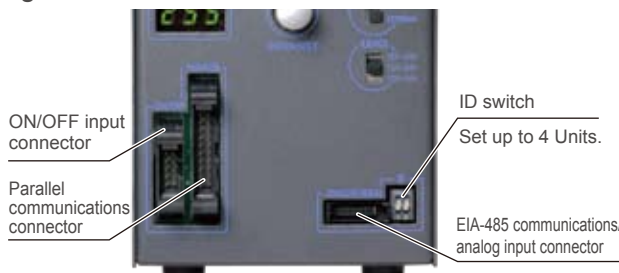


## Improving Performance

Parallel, serial, and analog control support all in a single Unit at an affordable price

### Includes External Control

Equipped for parallel, serial, and analog control all in a single Unit.



Control mode	Description	
Parallel communications	Light intensity control	Control the intensity to 256 levels via parallel signal inputs.
	Light intensity control	Command input for 256 levels of intensity via EIA-485 communications.
EIA-485 communications	ON/OFF control	Command input via EIA-485 communications
	Light intensity control	Control the intensity to 256 levels via an analog voltage (0 to 5 V).

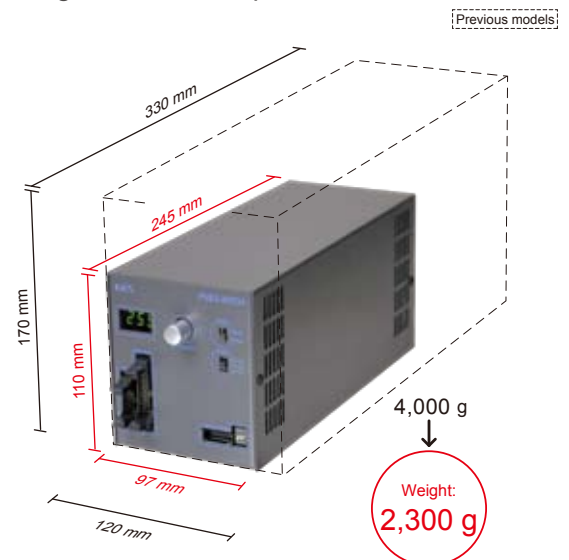
#### ON/OFF input connector

ON/OFF control is possible in combination with parallel, serial, or analog control.

ON/OFF control	ON/OFF control via OFF signal input (parallel bit method).
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### Compact, Lightweight Design

Compact design: 97-mm width, 110-mm height, 245-mm depth.



### Improved Usability

Supports the reproducibility of intensity values through a digital display.

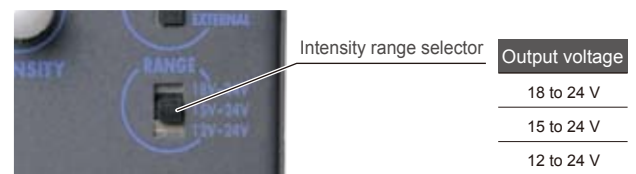


#### Quick Operation through a Pushbutton Dial

- Intensity setting to 256 levels.
- Turn ON the power supply while pressing the button for external control mode.
- Push and hold for two seconds to lock the intensity value.

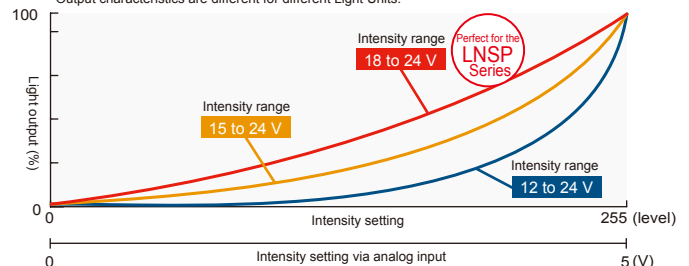


### Optimal Intensity Settings through Minimum Intensity Value Switching



Select the intensity range that best suits the Light Unit.

\* Output characteristics are different for different Light Units.

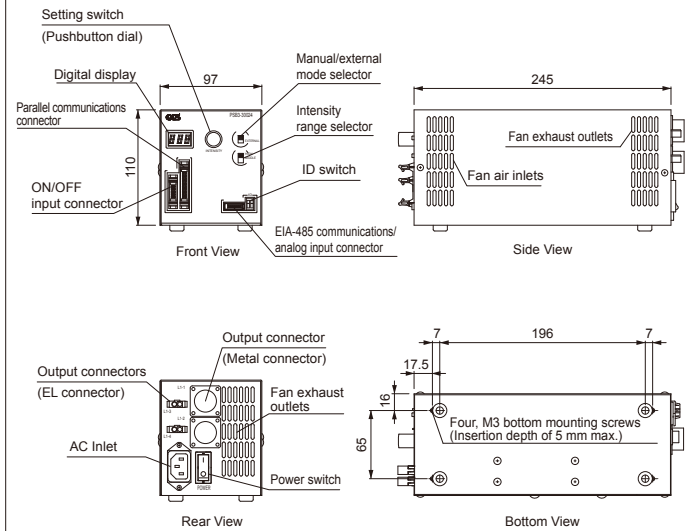


\*This graph is for illustration only.

## Specifications

Model	PSB3-30024	
Direct number	2000762	
Lighting method	Constant lighting	
Drive method	Constant-voltage system	
Light intensity control method	Variable-voltage control	
Number of channels	1 channel	
Applicable Light Unit rating	24 V 300 W	
Light intensity control	Manual and external intensity control	Front manual/external switch (MODE)
	Variable output voltage range	Select between 3 ranges via the front intensity range selector (RANGE).
	Manual	Set any of 256 levels via the setting switch. Press and hold the switch for 2 seconds to lock the intensity value.
	External	Parallel communications 8-bit intensity value setting (B0 to B7) and write signal (WR)
	Serial communications	Command input via EIA-485 communications
Lighting control	Analog input	Analog voltage (0 to 5 V)
	External control mode can be selected by pushing the setting switch while turning ON the power to the Control Unit.	
	Parallel bit input	Lighting signal (OFF)
EIA-485 communications settings	Serial communications	Command input via EIA-485 communications
	ID	Set via the front ID switch (00 to 03). Maximum of 4 connected Units.
	Terminating resistance	Set via the front ID switch (terminating resistance is ON only when the ID is 00).
Lighting delay (typ.)	0.1 s	
Error detection display	"Err" displayed on front-panel digital display	
Error detection output	Error is output and light output is stopped for internal AC/DC error.	
	External control connector	Error output terminal (0C, 0E), photocoupler insulation, open-collector output, alarm open (load current of less than 10 mA), and error status (serial communications)
Over current protection	Operation at 105% of the rated current. Protection reset after the power reactivation.	
Over voltage protection	Operation at 120% to 155% of the rated current. Protection reset after the power reactivation.	
Rated input voltage	100-240 VAC	
Power consumption (typ.)	410 VA	
Frequency	50/60 Hz	
Inrush current (typ.)	20 A/40 A (primary/secondary value at 100 VAC), 40 A/40 A (primary/secondary value at 240 VAC) * From a cold start	
Ground leakage current	3.5 mA max. (264 V AC, 60 Hz, with no load)	
Output voltage variation range (typ.)	Select between 3 ranges via the front intensity range selector.	
	12 to 24 V *With no load.	
	15 to 24 V *With no load.	
	18 to 24 V *With no load.	
Operating temperature and humidity	Temperature: 0 to 40°C, Humidity: 20% to 85%RH (with no condensation)	
Storage temperature and humidity	Temperature: -20 to 60°C, Humidity: 20% to 85%RH (with no condensation)	
Vibration resistance	Acceleration: 19.6 m/s <sup>2</sup> , frequency: 10 to 55 Hz, cycles: 3 minutes, sweep cycle: for 1 hour each in X, Y, and Z directions	
Cooling method	Forced air cooling	
CE Marking	Conforms to safety standard EN 61010-1.	Conforms to EMC standard EN 61326-1, Class A.
Environmental regulations	RoHS compliant	
Material, coating and surface processing	Steel plate, thickness of cover: 1.0, thickness of chassis: 1.6, N3 leather tone finish	
Weight	2,300 g max.	
Accessories	2-meter long 3-prong power cord with ground terminal (1)	

## Dimension Diagrams (mm)



## Options

### External Control Cables

These cables are used for parallel communications, EIA-485 communications, and the analog input.

(mm)

#### ■ Parallel Communications Cable

Direct number: 3000683  
Model: EXCB2-M20-3

Diagram showing a 20-pole MIL connector (pins 1, 2, 9, 10, 19, 20) and a 3000 mm length. The cable is cut off on one end, with a 6 dia. dimension indicated.

#### ■ ON/OFF Input Cable

Direct number: 3000682  
Model: EXCB2-M10-3

Diagram showing a 10-pole MIL connector (pins 1, 2, 9, 10) and a 3000 mm length. The cable is cut off on one end, with a 6 dia. dimension indicated.

#### ■ Parallel Communications and ON/OFF Input Branch Cable

Direct number: 3000684  
Model: EXCB2-M10M20-3

Diagram showing a 20-pole MIL connector (pins 1, 2, 9, 10, 19, 20) and a 10-pole MIL connector (pins 1, 2, 9, 10). The cable is cut off on one end, with a 7.2 dia. dimension indicated. The total length is 3000 mm.

#### ■ Analog Input Cable

Direct number: 3000687  
Model: EXCB2-E6AN-3

Diagram showing a 4.6 dia. connector and a 3000 mm length. The cable is cut off on one end.

#### ■ EIA-485 Communications Cable

Direct number: 3000686  
Model: EXCB2-E6SR-3

Diagram showing a 4.6 dia. connector and a 3000 mm length. The cable is cut off on one end.

#### ■ EIA-485 Communications Relay Cable

Direct number: 3000717  
Model: EXCB2-E6SR-E3-3

This cable is used to connect two or more Control Units together.

Diagram showing a 3000 mm length and a unit to relay connector. The cable is cut off on one end.

Direct number: 3000721  
Model: EXCB2-E3-E3-0.2

Diagram showing a 200 mm length and a relay connector to relay connector. The cable is cut off on one end.

Direct number: 3000720  
Model: ECNR-E3CN4

Diagram showing a 13.8 mm length and an e-CON relay connector (3 pins, 4x4). The cable is cut off on one end.

#### ■ EIA-485 Communications Relay Cable

Direct number: 3000685  
Model: EXCB2-E3-3

Diagram showing a 3000 mm length and a 3.9 dia. connector. The cable is cut off on one end.

This cable is used to connect to an external device when connecting two or more Control Units together.