PSB-60W-ELV-24VDC
POWER SUPPLY

PURE EDGE LIGHTING

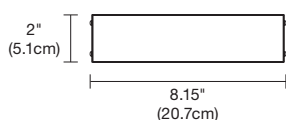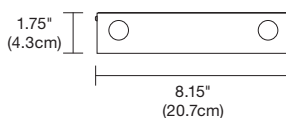**PSB-60W-ELV-24VDC**

DESCRIPTION

LED power supplies transform and regulate power from a line voltage power source into low voltage power for use with LED lighting. The power supply* accepts input voltage of 120 volts AC and outputs 24 volts DC power up to 60 watts. The low voltage output may be dimmed using an electronic low voltage dimmer (sold separately). The aluminum enclosure allows electrical connections to be made inside the box. Knockouts are provided for use with 1/2" conduit. Power Supply features short circuit and overload protection.

*Electrical Panels using Seimens/Murray AFCI breakers are not compatible with this ELV transformer. Use 0-10 Volt power supplies with this breaker.

**ELV power supplies are not compatible with N-Lite, use only 0-10 volt or Uni driver power supplies

APPLICATIONS

Indoor*

*To avoid overheating the power supply, install it in a ventilated remote location where air flows. Maintain proper spacing among power supplies when multiple power supplies are installed in the same remote location.

POWER INPUT

120VAC, 60Hz

POWER OUTPUT

Class 2; 24 volts DC 2.5A, 60 watts maximum
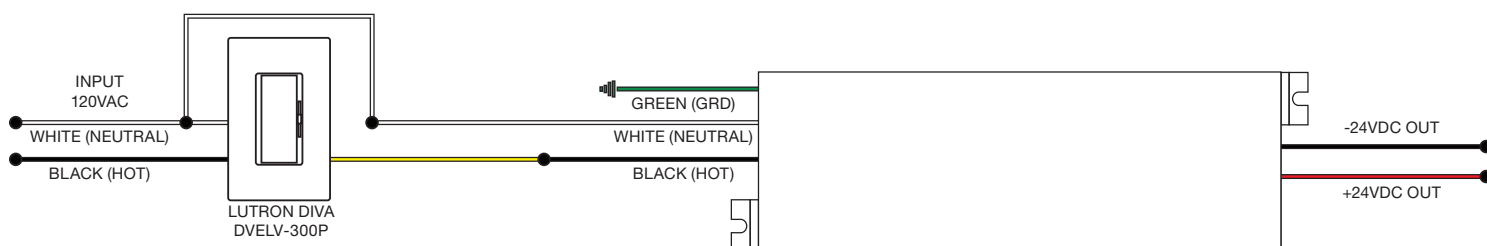
DIMENSIONS

8.15" x 2" x 1.75"

DIMMER TYPE

Electronic Low Voltage Dimmer: Lutron: Diva DVELV-300P, Skylark SELV-300P and Maestro MAELV-600

Top View
2" (5.1cm)
8.15" (20.7cm)

Side View
1.75" (4.3cm)
8.15" (20.7cm)

60W, 24VDC Low Voltage Wire Size Chart: 3% Voltage Drop

WIRE LENGTH (FT)	UP TO 53'	54'-82'	83'-137'	138'-208'
WIRE SIZE	14 AWG	12 AWG	10 AWG	8 AWG
VOLTAGE AT END OF WIRE	23.29VDC	23.28VDC	23.28VDC	23.28VDC

Product	Wattage	Dimming	Voltage
PSB	**60W**	**ELV**	**24VDC**
PSB Power Supply with Enclosure Box	**60W** 60 Watts	**ELV** Electronic Low Voltage	**24VDC** 24 Volt DC

INPUT 120VAC
WHITE (NEUTRAL)
BLACK (HOT)

LUTRON DIVA DVELV-300P

GREEN (GRD)
WHITE (NEUTRAL)
BLACK (HOT)

-24VDC OUT
+24VDC OUT

| PROJECT | | FIXTURE TYPE | | DATE | |

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INDOOR CONSTANT VOLTAGE REMOTE POWER SUPPLIES
24VDC, ELECTRONIC LOW VOLTAGE FOR STATIC WHITE, WARM DIM & TUNABLE WHITE*

PURE EDGE LIGHTING

REV 04.09.21

ELECTRONIC LOW-VOLTAGE (ELV) POWER SUPPLIES & RECOMMENDED DIMMERS†‡

ORDERING CODES	PS-60L-ELV-24VDC	PSB-60W-ELV-24VDC	PSB-2X60W-ELV-24VDC	PSB-100W-ELV-24VDC

SPECIFICATIONS

MAXIMUM LOAD	60W NON-IC, 50W-IC (FITS IN JBOX)	60W	2X60W	96W
INPUT VOLTAGE	120VAC	120VAC	120VAC	120VAC
OUTPUT VOLTAGE	24VDC	24VDC	24VDC	24VDC
DIMENSIONS	2.25" X 1.25" X 0.83"	8.125" X 2" X 1.75"	12.15" X 6.48" X 2.18"	9.25" X 3.5" X 2"
CLASSIFICATION	CLASS 2	CLASS 2	CLASS 2	CLASS 2
IN WALL MOUNTING	N/A	PSB-60W-ELV-24VDC-IW	PSB-2X60W-ELV-24VDC-IW	PSB-100W-ELV-24VDC-IW

ELECTRONIC LOW-VOLTAGE (ELV) POWER SUPPLIES & RECOMMENDED DIMMERS†‡

ORDERING CODES	PSB-2X100W-ELV-24VDC	PSB-3X100W-ELV-24VDC	PSB-4X100W-ELV-24VDC

SPECIFICATIONS

MAXIMUM LOAD	2X96W	3X96W	4X96W
INPUT VOLTAGE	120VAC	120VAC	120VAC
OUTPUT VOLTAGE	24VDC	24VDC	24VDC
DIMENSIONS	12.15" X 6.48" X 2.18"	14" X 10" X 3"	17" X 13" X 3"
CLASSIFICATION	CLASS 2	CLASS 2	CLASS 2
IN WALL MOUNTING	PSB-2X100W-ELV-24VDC-IW	N/A	N/A

DIMMING AND CONTROLS

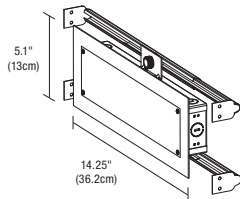|			
LUTRON DIVA: DVELV-300P	•	•	•
LUTRON SKYLARK: SELV-300P	•	•	•
LUTRON RADIO RA2: RRD-6NA	•	•	•
LUTRON MAESTRO: MAELV-600	•	•	•
LEGRAND ADORNE: ADTP-703TUM4	•	•	•

†22K - 57K color temperatures are compatible with 0-10V, ELV, and Lutron Hi-Lume® Power Supplies. Warm Dim (27D, 30D) color temperatures are only compatible with ELV power supplies. Tunable White color temperature is compatible with 0-10V, ELV, DMX, and Lutron Hi-Lume® Power Supplies. Dynamic Color (RGB, RGB+W) and Static Color (Amber, Blue, Green, or Red) are compatible with DMX Power Supplies.

‡Electrical Panels using Seimens/Murray AFCI breakers are not compatible with this ELV transformer. Use 0-10 Volt power supplies with this breaker

With N-Lite Dimming Do Not use ELV power supplies, use only 0-10 volt or Uni drivers power supplies
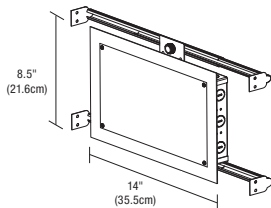
*Dynamic Tunable white requires Dual power Supplies and Controls. For single control use with our proprietary Tunable White Controller CDMX-1, refer to Universal Dynamic Tunable White Power Supply Specifications.

**Up + Down Light fixtures and Systems can be controlled individually or together depending on the power supply selection.

5.1" (13cm)
14.25" (36.2cm)

5.1" x 14.25" In-Wall Mounting Kit: Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

Ordering Codes: PSB-60W-ELV-24VDC-IW
PSB-100W-ELV-24VDC-IW

8.5" (21.6cm)
14" (35.5cm)

8.5" x 14" In-Wall Mounting Kit: Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.
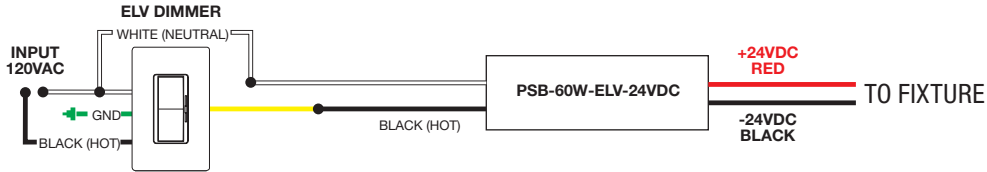
Ordering Codes: PSB-2X60W-ELV-24VDC-IW
PSB-2X100W-ELV-24VDC-IW

PROJECT		FIXTURE TYPE		DATE	

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INDOOR CONSTANT VOLTAGE REMOTE POWER SUPPLIES
24VDC, ELECTRONIC LOW VOLTAGE FOR STATIC WHITE, WARM DIM & TUNABLE WHITE*

PURE EDGE
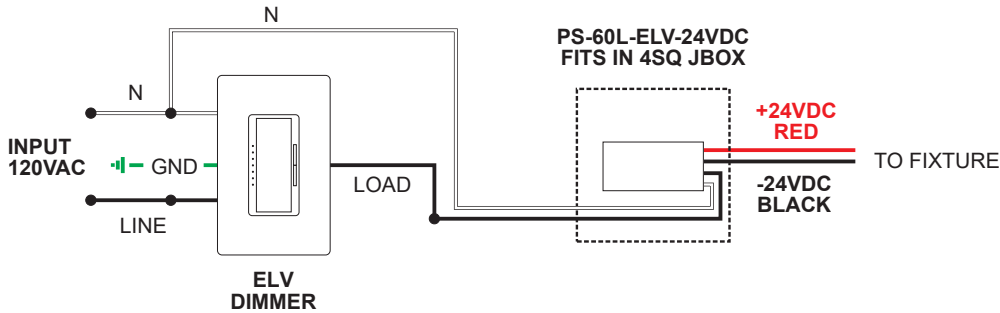LIGHTING

SAMPLE WIRING DIAGRAMS 24VDC ELV

Application: ELV dimming for Static White

Dimming: Dimmable with ELV dimmer: Legrand, Adorne ADTP703TU; Lutron: Diva DVELV-300P, Skylark SELV-300P, Maestro MAELV-600 and Radio Ra 2

Application: ELV dimming for Static White

Dimming: Dimmable with ELV dimmer: Legrand, Adorne ADTP703TU; Lutron: Diva DVELV-300P, Skylark SELV-300P, Maestro MAELV-600 and Radio Ra 2
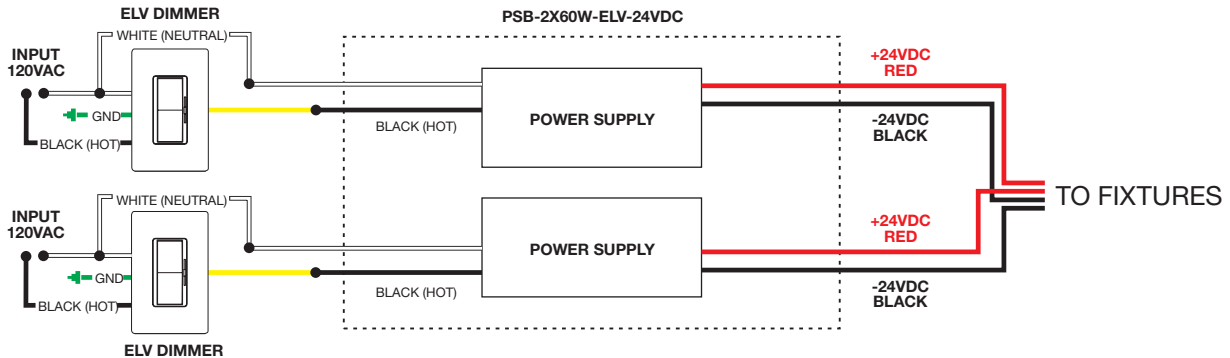

Application: Dual ELV dimming for Static or Dynamic/Tunable White

Dimming: Dimmable with ELV dimmer: Legrand, Adorne ADTP703TU; Lutron: Diva DVELV-300P, Skylark SELV-300P, Maestro MAELV-600 and Radio Ra 2

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