ETC

Power Supplies

BluesSystem LV Series

GENERAL INFORMATION

LV Power Supplies

BluesSystem LV power supplies provide precision power and control for BlueBeam and BlueDome fixtures. Available in a one-zone and six-zone version (up to 10 luminaires per zone) with wall-mount and rack-mount options, BluesSystem LV power supplies allow for maximum flexibility when designing your venue.

APPLICATIONS

- For use with BluesSystem LV Fixtures

FEATURES

- Configurable options for minimum light level and DMX loss behavior
- One-zone version (up to 10 luminaires) available with:
  - Wall-mounting enclosure
  - Switched (dry contact) or DMX control input options
- Six-zone version (up to 60 luminaires) available with:
  - Wall- or rack-mounting enclosure
  - Switched (dry contact), 0-10 V Analog or DMX control
  - input options

GENERAL

- Three-year warranty
- Ambient operating temperature 0–40° C / 32–104° F

REGULATORY AND COMPLIANCE

- cETLus Listed
- Conforms to ANSI/UL STD. 2108
- Certified to CSA STD. C22.2 No. 250.0
- CE Compliant

ORDERING INFORMATION

ONE-ZONE POWER SUPPLY

BS			
MODEL	TYPE	ZONES	CONTROL
BS- BluesSystem	PS- Power Supply	1- One zone	S- Switched D- DMX

EXAMPLE

BS	PS	1	D

BSPS1D - BluesSystem power supply, one-zone, DMX.

SIX-ZONE POWER SUPPLY

BS				
MODEL	TYPE	ZONES	MOUNT	CONTROL
BS- BluesSystem	PS- Power Supply	6- Six zone	W- Wall-mount R- Rack-mount	S- Switched A- 0-10V Analog D- DMX

EXAMPLE

BS	PS	6	R	A

BSPS6RA - BluesSystem power supply, six-zone, rack-mount, 0-10V analog.

SPECIFICATIONS

CONTROL

- Each zone supports up to ten luminaires
- One-zone power supply available with switched (LV dry contact) or DMX input
- Six-zone power supply available with switched (LV dry contact), 0–10 V analog, or DMX input
- Six-zone 0–10 V version features user selectable sink or source operation
- Configurable minimum light level and DMX loss behavior options
- Three-conductor screw terminal for DMX in/thru.

ELECTRICAL

- Power supply input operating voltage: 100–240 VAC 50/60 Hz
- One-zone power supplies provide 24 VDC output
- Six-zone power supplies provide 36 VDC output
- 3 W luminaire consumes 85 mA @ 36 V (130 mA @ 24 V)
- Three conductor screw terminals for output zones accepting 30-12 AWG / 0.05–4.0 mm^2 gauge cable

MECHANICAL

- One-zone power supply available as wall-mount only
- Six-zone available in wall-mount or 19" 2U rack-mount
- Suitable for dry locations only

THERMAL

- Low heat generation

ACCESSORIES

BSDM1 - DIMMING MODULE

The DM1 dimming module allows basic instensity control of up to 40 BlueBeam or BlueDome LV fixtures. The module is designed to be installed into an electrical faceplate or panel of your choosing and features the same three terminal connections as the fixtures (power, ground, control) for ease of commissioning. See BluesSystem installation guide for further information on wiring configuration options.

MAXIMUM CABLE DISTANCES

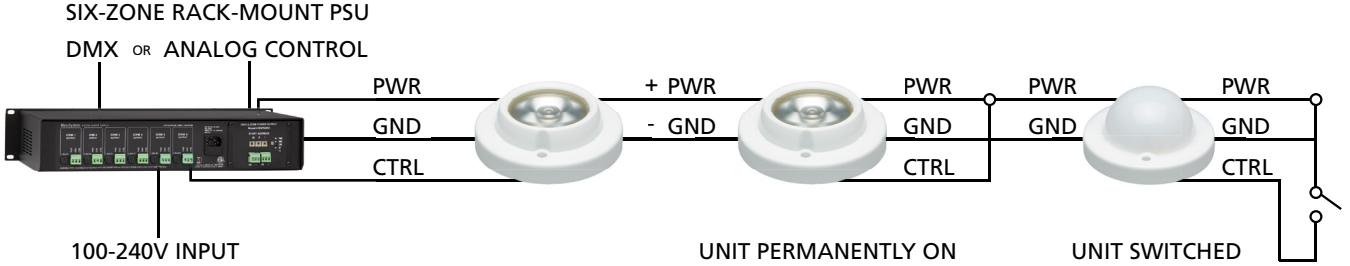
BluesSystem LV beams and domes can be wired using standard, three conductor cable. The maximum distance from power supply to fixture varies based on the gauge of cable used. The following charts provide information on the maximum distance for a variety of common cable sizes. It is possible to increase perminssable cable distance by running a double ground conductor - e.g. A four-conductor 18AWG cable such as Belden 8489 could be installed with two of the conductors used for the ground termination. This 'double ground' connection allows for a greatly increased cable distance.

24V ONE-ZONE POWER SUPPLY

AWG	MAX FT USING SINGLE GROUND	MAX FT USING DOUBLE GROUND
12	396	792
2.5 mm^2	307	614
14	249	498
16	157	313
18	99	197

36V SIX-ZONE POWER SUPPLY

AWG	MAX FT USING SINGLE GROUND	MAX FT USING DOUBLE GROUND
12	594	1,188
2.5 mm^2	460	920
14	374	747
16	235	470
18	148	296



PHYSICAL

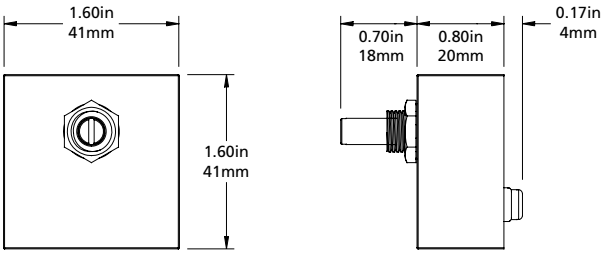
Product Dimensions

MODEL	HEIGHT		WIDTH		DEPTH	
	in	mm	in	mm	in	mm
Dimming Module	1.60	41	1.60	41	1.67	42
One-Zone PSU Wall Mount	9.06	230	5.55	141	2.11	54
Six-Zone PSU Rack Mount	3.47	88	19	483	9.00	229
Six-Zone PSU Wall Mount	12.52	318	9.96	253	3.54	90

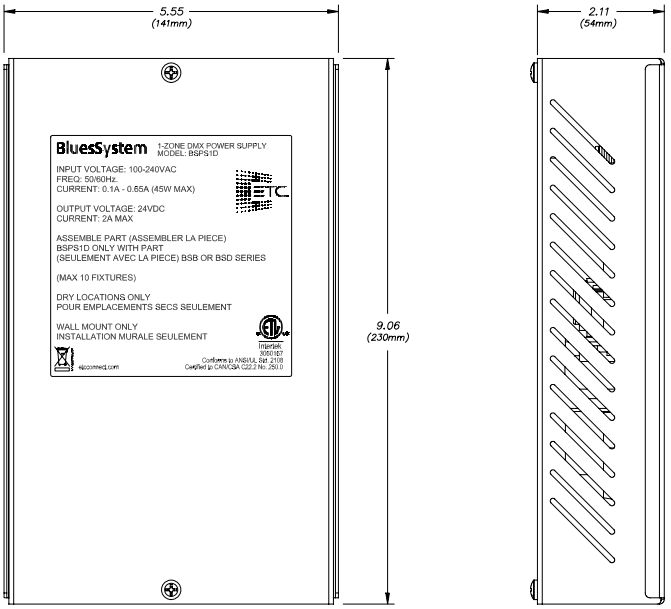
Product Weight

MODEL	WEIGHT		SHIPPING WEIGHT	
	lb	kg	lb	kg
Dimming Module	1.98	0.90	2.20	1.00
One-Zone PSU Wall Mount	2.60	1.17	3.15	1.40
Six-Zone PSU Rack Mount	7.10	3.20	10.05	4.50
Six-Zone PSU Wall Mount	8.45	3.80	10.20	4.60

DIMMING MODULE

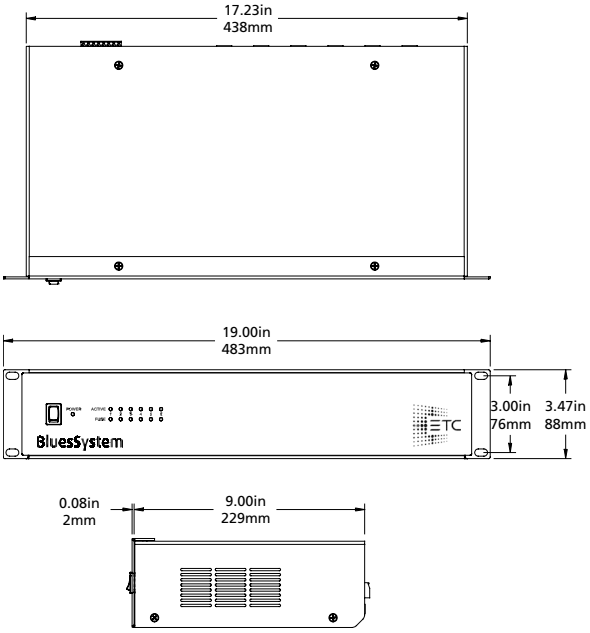


ONE-ZONE POWER SUPPLY

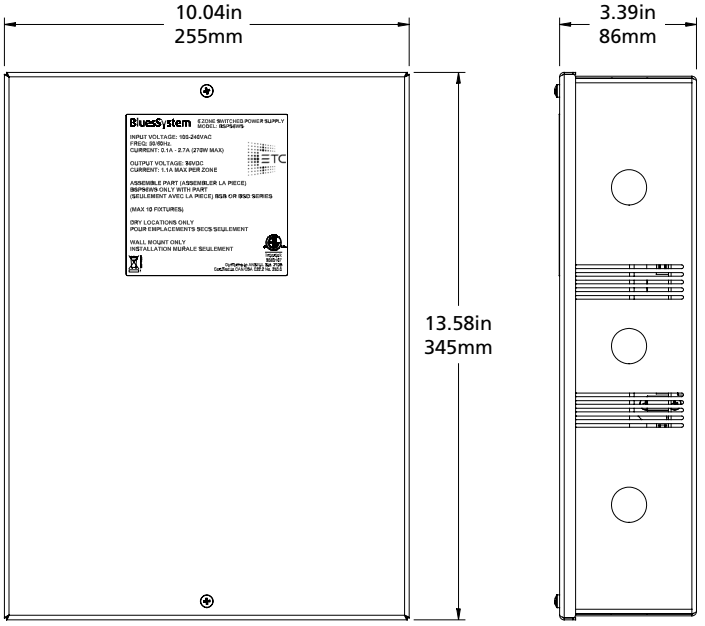


PHYSICAL

SIX-ZONE POWER SUPPLY RACK MOUNT



SIX-ZONE POWER SUPPLY - WALL MOUNT



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