











Programmable Normal and Emergency LED Driver

- Input Voltage: 120-277VAC, 50/60Hz
- Rated Output Current: 700-2400mA
- · Class 2 LED Driver
- Output Voltage Range of 10-55VDC
- Minimum Dimming Output Current 7mA
- Output Power:85W for LED load,
- Emergency Output Power: 5W-10W (Factory default 10W)
- UL 924 Self-Diagnostics
- 0-10V Dimmable: 100%-1%, 0% or Pulse DIM
- Compatible with Fulham SmartSet

Wilnimum Dimming Output Current /mA	Compatible with Fulnam SmartSet			
General Specifications				
Input Voltage / Frequency	120-277VAC (+/- 10%), 50/60Hz			
Input Current	0.88A@ 120VAC, 0.4@ 277VAC			
Input Power	98W (Max.) >0.9, see Fig. 5			
Input PF				
THD	<20, see Fig. 4			
Effciency	>90%@ 35.4Vout			
,	>91%@ 55 Vout			
Inrush Current	<25A at 120VAC, <50A at 230VAC, <60A at 277VAC			
Max Leakage Current	<0.45mA			
Output Voltage Range	10-55V ===			
Output Current	700mA-2400mA, (R-set 700-2400) Factory default 700mA / RSET			
Output Power	85W for LED load			
Line Regulation / Load Regulation	<1% @Full Load / <3% @Full Load			
Battery Type	Ternary Lithium Battery			
Low Frequency Ripple (120Hz ripple peak to peak)	<5% @Full Load			
Dimming Type	0-10V or Pulse DIM			
Dimming Insulation	0-10V Isolated to AC input and output			
Auxiliary Voltage	12VDC			
Auxiliary Current	0.2A			
Auxiliary Wattage	2. 4W			
Operating Ambient Temperature Range	0°C to 50°C (32°F to 122°F) @10W Emergency Power 75°C (167°F) for UL and cUL, 85°C (185°F) for UL safety			
Maximum Driver Case Temperature				
Start-up Time	<750mS			
Standby Power	<0,7W			
Test Switch Remote Mounting Distance	10' (3m) Max.			
Driver Output Type	Class 2			
Overall Size	16.7"L x 1.18"W x 1.0"H(424mm L x 30mm W x 25.4mm H)			
Weight	TBD			
Safety / Compliance	CEC Title 20			
	RoHSCompliant			
	UL LISTED with Self-Diagnostics to UL924, Class 2 Rated Output			
Withstand Voltage	Compliant with UL924			
Insulation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/ 500VDC/25°C/90%RH			
Potting Type / Degree of Fill	Partial Potting			
EMC Emission	FCC Part 15 Class A			
EMC Immunity	FCC Part 15 Class A			
Operating Humidity	20-95% RH Non-condensing			
Protections	Input Voltage Surge 2.5kV / 2.5kV Ring Wave, Compliant with UL924			
	Input Current Protection			
	Output Short Circuit Protection			
	Output Open Circuit Protection			
	Output to Ground Short Protection			
	Overload Protection			
	Over Temperature Protection			
Hot Swappable	NO			
Sound Rating	A			
Service Life	50,000 hours @ Tc 75°C (167°F),see figure 4			
Warranty	5 years warranty @ Tc 75°C (167°F) from the date of manufacture			
	00250 Tol : 1 222 770 2080 Fax : 1 222 754 0060 ordor@fulbam.com ways fulbam.com			

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Specifications subject to change without notice.

Page 1 of 6
2025-XXX Rev A













Typical Characteristics Graphs: Dimming and Thermal

For reference

Figure 1

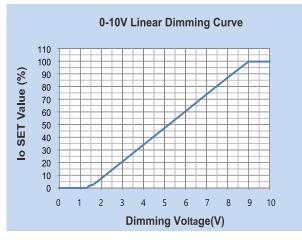


Figure 3

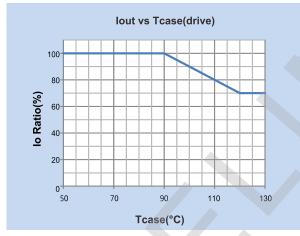


Figure 5

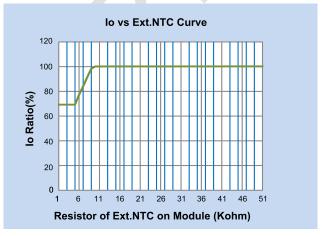


Figure 2

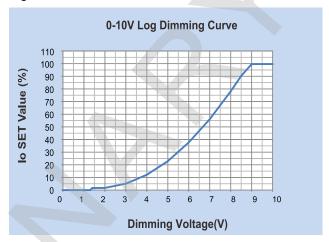
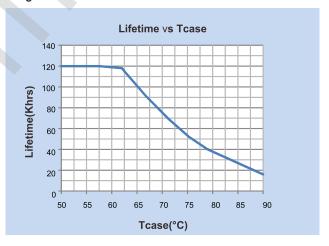


Figure 4



Failure Rate Info based upon MTBF modeling: 90% survivals at end of life @ <=Tc lifetime rating





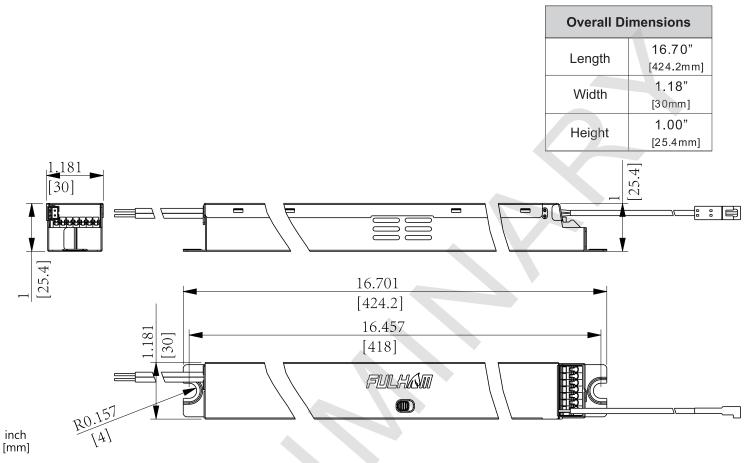




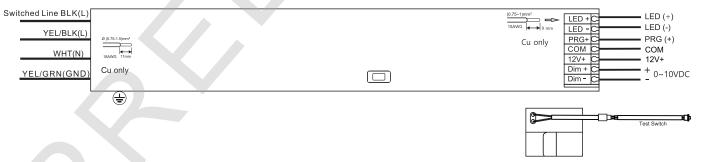




Mechanical Drawings



Wire Diagram



NOTES:

- 1)This driver must be installed by a licensed electrician.
- 2)This driver must be grounded.
- 3)Once the unit has entered into a self-diagnostic cycle it will not exit until it has fully concluded testing regardless of power cycling to the input. In order to exit you must manually hold the test button for 10 seconds or allow the testing to conclude.

CAUTION: Replace battery only with Specific Battery Package.

ATTENTION: Remplacer la batterie uniquement par une Specific Battery Package.









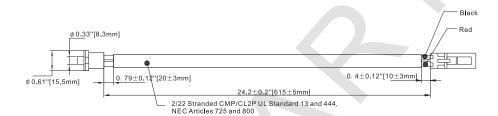




Accessories

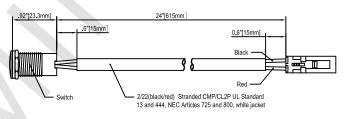
Test Switch (Included)

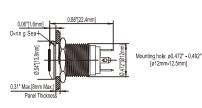




Wet Location Test Switch: FHS-TSTWL-BC (Optional)



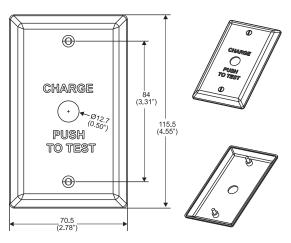




Wall Plate: FHSWLPWH



Wall plate and screw color: white with black lettering



1."Charge push to Test"plate
2. (2) 6-32 x ½"LG mounting screws













Guidelines

Grounding

• Driver must be grounded by means of the Driver case.

Over temperature protection

• The Fulham Hotspot Plus LED drivers are protected against thermal overload. If the temperature limit is exceeded, the output current is reduced.

LED load

• Fulham Hotspot Plus LED drivers are designed to drive passive LEDs, -COB's and -LED assemblies Proper function is not guaranteed when (LED) loads with active components are used.

Programming

• For detailed programming instructions please see our Programming Instructions and Design Guide found on our website: https://www.fulham.com/PDFs/SpecSheets/Fulham-Design-Guide-Programmable-

Mounting / Cooling

• Above an output power of 85W, the driver needs to be mounted on a heat conductive surface of at least 200cm. Always test if the surface is su-cient enough before installing the driver.

Short-circuit protection

• In case of a short circuit the LED driver switches to protection mode. After the removal of the short-circuit the LED driver will recover automatically.

No-load Operation

• In no-load operation the output voltage will not exceed the specified open circuit output voltage.

Hot Swapping

This driver does not support hot swapping of the LEDs

Remote Mounting

Up to 15ft with 18AWG. Contact Fulham for higher remoute distance.

Battery Maintenance

• In order to maintain proper operation and warranty coverage, the battery must be recharged once per year prior to installation.

Warranty

Reference Fulham's limited Warranty: https://cdn.fulham.com/PDFs/Limited-Warranty.pdf













Part Number Matrix

LED Driver

AC LED Driver

AC=AC LED Driver

1 = Programmable Output

LED Driver Number

Input Voltage UNV = 120V

Power

85 = 85W

Case Type S = Stick

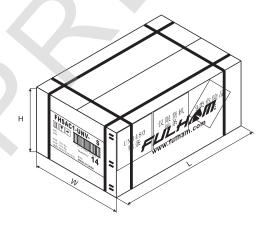
FHS = FireHorse HotSpot Driver

Product Image: FHSAC1-UNV-85S

FHSAC1-UNV-85S

Packaging

Master Carton



OUTER DIMENSION						
L		W		Н		
19.84"(504mr	n) 9.21"(23		34mm)	8.86"(225mm)		
Net Weight	Gross Weight		QUANTITY			
18.74 lbs. (8.5kg)		l.83lbs. 9.9 kg)	14pcs.			