



# **Emergency LED Driver**

• Emergency LED Driver

Universal Voltage: 120-277VAC

• Output Voltage Range: 15-55V ===

Output Current: 550mA Max

Output Wattage: 8WOutput Type: LED Class 2

Number of Output Channels: 1 Channel

• Wet and Damp Location, IP20

General	Spec	ificat	tions
Input \	Anetlo/	/ Fred	Hency

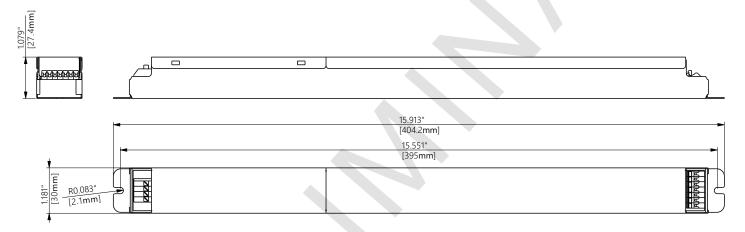
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Input Voltage / Frequency	120-277V~, 50/60Hz
Input Current	<0. 12A
Input Power	<5W
Standby Input Power	<0.85W
Input Power Pass-Through Rating (AC Driver Line)	2A
Max Output Rating (LED+ LED-Terminal)	3A, 55V Max
Output Type	LED Class 2
Output Power	8W
Output Voltage Range	15-55V ===
Current Rated	550mA Max
Number of Output Channels	1Channel
Test Switch	Plastic Bi-Color Test Switch
Input Surge Protection	3KV/6KV Ring Wave
Protections	Output Open Protection
	Output Overload Protection
	Output Short Circuit Protection
	Output Temperature Protection
RFI/EMI	FCC Part15A EN55015
Ambient Operating Temperature Rang	0°C To 55°C (32°F To 131F°)
Tc	TBD
Sound Rating	A
Battery Type	Ternary lithium battery
Battery Voltage	10.8V
Pack Capacity	3350mAh (TBD)
Battery Rating	335mA (TBD)
Battery Recharge Time	24 Hours
Battery Discharge Time	Min 1.5 Hours
IP Rating	IP20
Test Switch Remote Mounting Distance	65.6' (20m) Max.
Service Life	50,000 hours
Warranty Sofoty Standard	5 years
Safety Standard	UL 924, UL 1310, CSA C22.2 No.141-10/cUL





## **Mechanical Data**

Overall Dimensions				
Length	15.913" [404.2mm]			
Width	1.181" [30mm]			
Height	1.079" [27.4mm]			

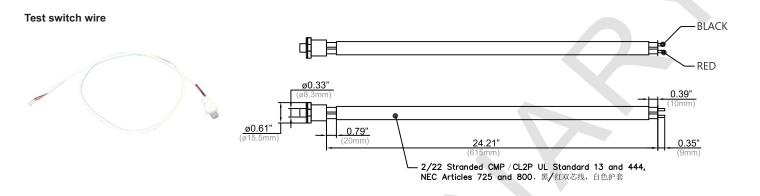








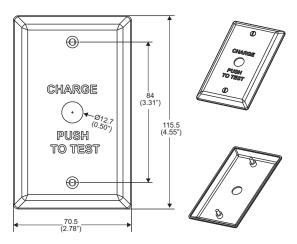
## **Accessories**



#### Wall Plate: FHSWLPWH



Wall plate and screw color: white with black lettering

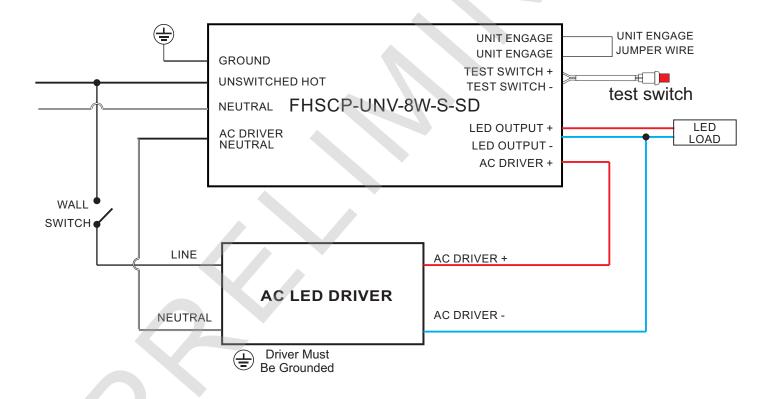


- 1."Charge push to Test"plate
- 2. (2) 6-32 x ½"LG mounting screws





## **Wiring Diagram**







#### **SELF-DIAGNOSTIC INSTRUCTIONS / OPERATION:**

#### If the self-diagnostic feature is enabled:

The emergency LED driver will conduct a self-check for thirty(30)seconds every thirty(30)days; and a ninety(90) minutes self-check every 12 months. After every self-check the LED indicator light will indicate a status signal. Check indicator status chart below to diagnose the status signal.

#### If the self-diagnostic feature is disabled:

User must conduct a manual test every thirty (30) days to ensure the emergency LED light source illuminates as intended. A full discharge test shall be conducted once a year; the LED light source shall illuminate for a minimum of ninety (90) minutes.

\*Self-Diagnostic feature is factory enabled

#### **TEST SWITCH INDICATOR STATUS:**

LED Indicators Status	EM Driver Status / Mode		
<ul><li>Solid Green</li></ul>	System OK / AC OK (Self-Diagnostic Enabled or Disabled)		
Slow Flashing Red, 4s on / 1s off	Battery NOT detected, check battery switch or connection		
Flashing Red, 1s on / 1s off	Battery Failure, replace battery		
Flashing Green, 1s on / 1s off	Self-Diagnostic test underway		
Fast Flashing Red, 0.1s on / 0.1s off	Abnormal driver performance, replace driver		
Slow Flashing Green, 0.1s on/3s off	Normal working in EM mode		
Solid Red	No load or output over voltage protection triggered, Check LED connection		
Slow Flashing Red, 0.5s on / 0.5s off	Charge circuit failure replace driver		

## **TEST SWITCH OPERATIONS**

#### **EM Test:**

Press and hold the test button (>1s) to enter EM mode in normal AC powered.

## Manual Self-Diagnostic:

After charging twelve (12) hours or battery fully charged, quickly press the test button three(3) times within two (2) seconds to force the controller to enter Self-Diagnostic cycle. To quit the Self-Diagnostic cycle after engaged, press and hold the test button for ten (10) seconds.

#### **Enable/Disable Self-Diagnostic Status:**

Fast click 2 times within 2s to query the Self-Diagnostic Enabled/Disabled status. The indicator would blink for current status for 3 cycles. 2.5s ON/0.5s OFF stands for Enabled. 0.5s ON/2.5sOFF stands for Disabled.

#### Load Test:

When the test button is flashing red 4s on/4s off, press and hold the test switch for 10s, the unit will enter Self -Diagnostic mode.

#### **Turn Off EM Output:**

Press and hold the test switch for 10 seconds during EM output condition to turn off EM output. This is useful for production environment to turn off the EM output once a luminaire has completed functionality testing.





#### Guidelines

## Grounding

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

## Over temperature protection

• The Fulham's Hotspot Constant Power Emergency LED drivers are protected against thermal overload. If the temperature limit is exceeded, the output current is reduced.

#### **LED** load

 Fulham's Hotspot Constant Power Emergency 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.

## **Mounting / Cooling**

Above an output power of 8W, the driver needs to be mounted on a heat conductive surface of at least 200cm<sup>2</sup>. Always
test if the surface is sufficient 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** 



<u>CP</u>

<u>UNV</u>

<u>8W</u>

<u>S</u>

SD

<u>LED Driver</u>

FHS = Fire Horse EM Driver

Output Type

CP= Constant Current

Input Voltage
UNV= 120V-277V

8= 8W

S= Stick Case

Special Features

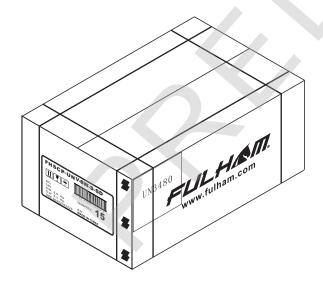
SD= Self Diagnostic

Product Image: LED Driver

FHSCP-UNV-8W-S-SD

## **Packaging**

**Master Carton** 



OUTER DIMENSION						
L	L		٧	Н		
Net	Gross					
Weight	Gross Weight		QUANTITY			