









Emergency LED Driver

Universal Voltage: 120-277V~
Output Voltage Range: 15-55V ==
Output Current: 181-666mA

- Output Wattage: 10WOutput Type: LED Class 2
- Number of Output Channels: 1 Channel
- Dry and Damp

Consul Considerations	
General Specifications	400 07774
Input Voltage / Frequency	120-277V~, 50/60Hz
Input Current	0.1A Max
Input Power	5W Typical
Maintain Power	<0.85W
Input Power Pass-Through Rating (AC Driver Line)	5A
Max Output Rating (LED+ LED-Terminal)	3A Max
	55V Max
Output Power	10W
Output Voltage Range	15-55V
Output Current Rated	181-666mA
Number of Output Channels	1Channel
Test Switch	Bi-Color Wet Location Test Switch (FHS-TSTWL-BC)
Input Surge Protection	3KV/6KV Ring Wave, 1KV/2KV Combine surge
Protections	Output Open Protection
	Output Overload Protection
	Output Short Circuit Protection
RFI/EMI	FCC Part 15A
Ambient Operating Temperature Rang	
Tc	0°C To 55°C (32°F To 131F°) 62°C (143. 6°F)
Sound Rating	
Battery Type	A Lithium-ion
Battery Voltage	
Pack Capacity	10.95V
Battery Rating	2600mAh 28.47Wh
Battery Count	3 Cells
Battery Recharge Time	24 Hours
Battery Discharge Time	Min 1.5 Hours
IP Rating	IP20
Test Switch Remote Mounting Distance	20' (6m) Max.
Service Life	50,000 hours @62°C (143. 6°F)
Warranty	@62°C (143. 6°F) 5 Years From the date of manufacture when properly installed
Safety Standard	UL 924, UL 1310, CSA C22.2 No.141



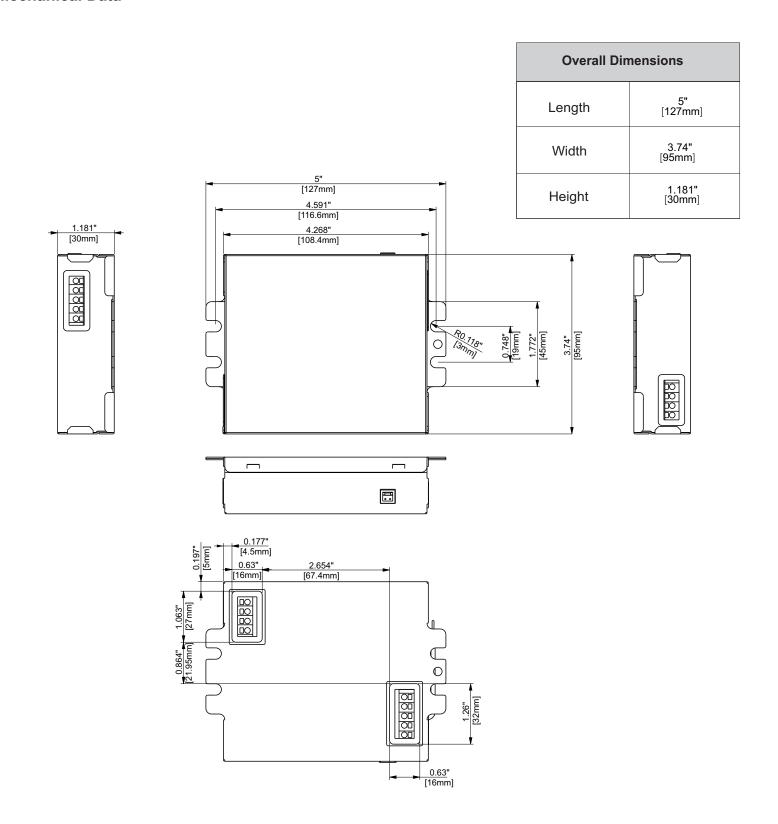








Mechanical Data









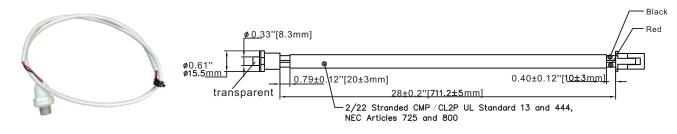






Accessories

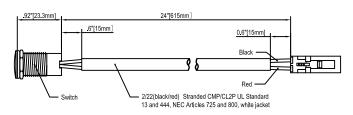
Test switch wire: FHS-TST-BC

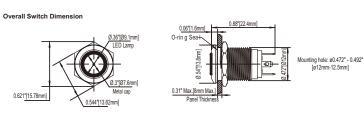


Optional Accessories

Bi-Color Wet Location Test Switch: FHS-TSTWL-BC



















Optional Accessories

Wall Plate: FHSWLPWH

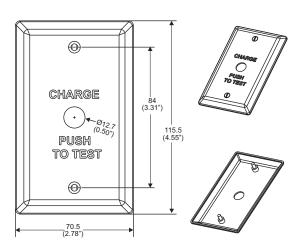


Wall plate and screw color: white with black lettering

Wall Plate: FHSWLPPWH(Pure White Wall Plate)



Wall plate and screw color: Pure white with black lettering

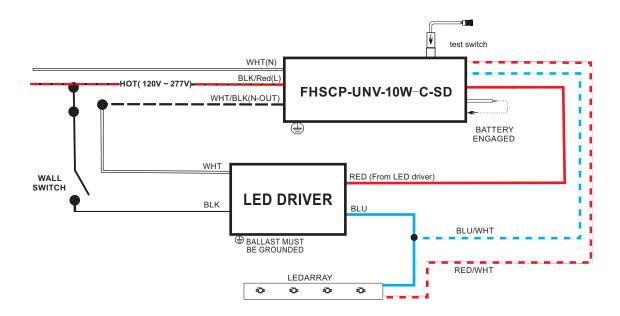


1."Charge push to Test"plate 2. (2) 6-32 x ½"LG mounting screws

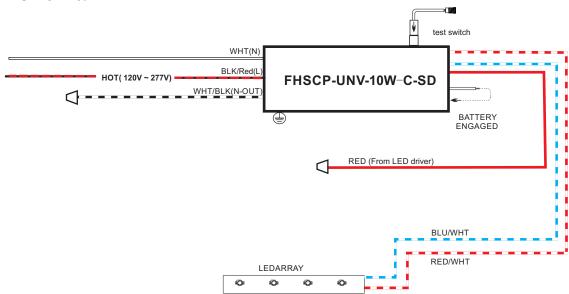




Wiring Diagram



Wiring Diagram (Emergency Only)









			TEST SWITCH (2PIN Connector)
			AC DRIVER+ CUNIT ENGAGE CUNIT ENGAGE CLED- CLED+ C
AC DRIVER NEUTRAL GROUND LINE NEUTRAL			
<u> </u>			







If the self-diagnostic feature is enabled:

The emergency LED driver will conduct a self-check for sixty(60) 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		
Solid Green	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		
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		
Solid Red	Over Current Protection		
Flashing Green, 2s on/0.5s off	Enables Self-diagnosis		
Flashing Green, 0.5s on/2s off	Cancel Self-diagnosis		
Flashing Red, 0.5s on/3s off	Abnormal Power-on Under Self-diagnosis/Battery Voltage abnormal		

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 at least, quickly press the test button three(3) times to force the controller to enter Self-Diagnostic cycle. To quit the Self-Diagnostic cycle after engaged, press and hold the test button for three (3) seconds.

Query Self-Diagnostic Status:

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

How to Enable and Disable Self-Diagnostic Status:

Press and hold the test button for one second, then release, and press and hold the test button for 2 seconds.

Cancel reporting error:

In standby, press and hold the button for about 5s to cancel the error indication.

Emergency Battery Disconnect:

Press and hold the test switch for 5seconds 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.

LED load

• Fulham's Hotspot Constant Power Emergency LED drivers 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 10W, the driver needs to be mounted on a heat conductive surface of at least 200cm². 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 20ft 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



Special Features

LED Driver

Output Type

Input Voltage UNV= 120V-277V

10W= 10W

C= Compact

SD= Self Diagnostic

FHS = Fire Horse EM Driver

CP= Constant Power

Product Image: LED Driver

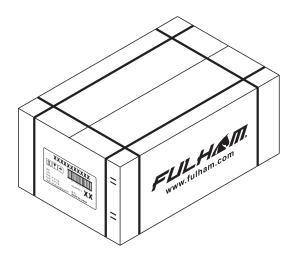
FHSCP-UNV-10W-C-SD





Packaging

Master Carton



OUTER DIMENSION						
L	V		V	Н		
15.71" (399r	15.71" (399mm) 13.35"((339mm)	11.73" (298mm)		
Net Weight	Gross Weight		Ql	JANTITY		
19.40lbs. (8.8kg.)		2.93lbs. 10.4kg)		20pcs.		