

# FHSCP-UNV4-20W-L-SD-A



RoHS COMPLIANT



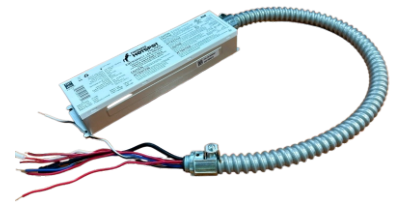
UL US LISTED E477042

## Emergency LED Driver

- Universal Voltage: 120-480VAC, 50/60Hz
- Output Voltage Range: 15-55V  $\overline{\text{---}}$
- Output Current: 1333mA Max
- Output Wattage: 20W
- Output Type: LED Class 2
- Number of Output Channels: 1 Channel
- Dry and Damp

### General Specifications

Input Voltage / Frequency	120-480VAC , 50/60Hz
Input Current	<0.08 A
Input Power	<7W
Standby Power	<0.85W
Input Power Pass-Through Rating (AC Driver Line)	5A
Max Output Rating (LED+ LED- Terminal)	5A Max
	55V Max
Output Power	Typical 20W
Output Current Rated	1.333A Max
Output Voltage Range	15 - 55V $\overline{\text{---}}$
Number of Output Channels	1 Channel
Test Switch	Bi-Color
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 Part15A
Ambient Operating Temperature Rang	0°C To 55°C (32°F To 131°F°)
Tc	62°C (143.6°F)
Sound Rating	A
Battery Type	Ternary lithium battery
Battery Voltage	11.1V
Pack Capacity	5000mAh
Battery Rating	55.5Wh
Battery Count	3 Cells
Battery Recharge Time	24 Hours
Battery Discharge Time	1.5 Hours Min.
IP Rating	IP20
Test Switch Remote Mounting Distance	20' (6m) Max.
Service Life	50,000 hours
Warranty	5 Years From the date of manufacture when properly installed
Safety Standard	UL 924, UL 1310, CSA C22.2 No.141, CSA-C22.2 No. 223-M9



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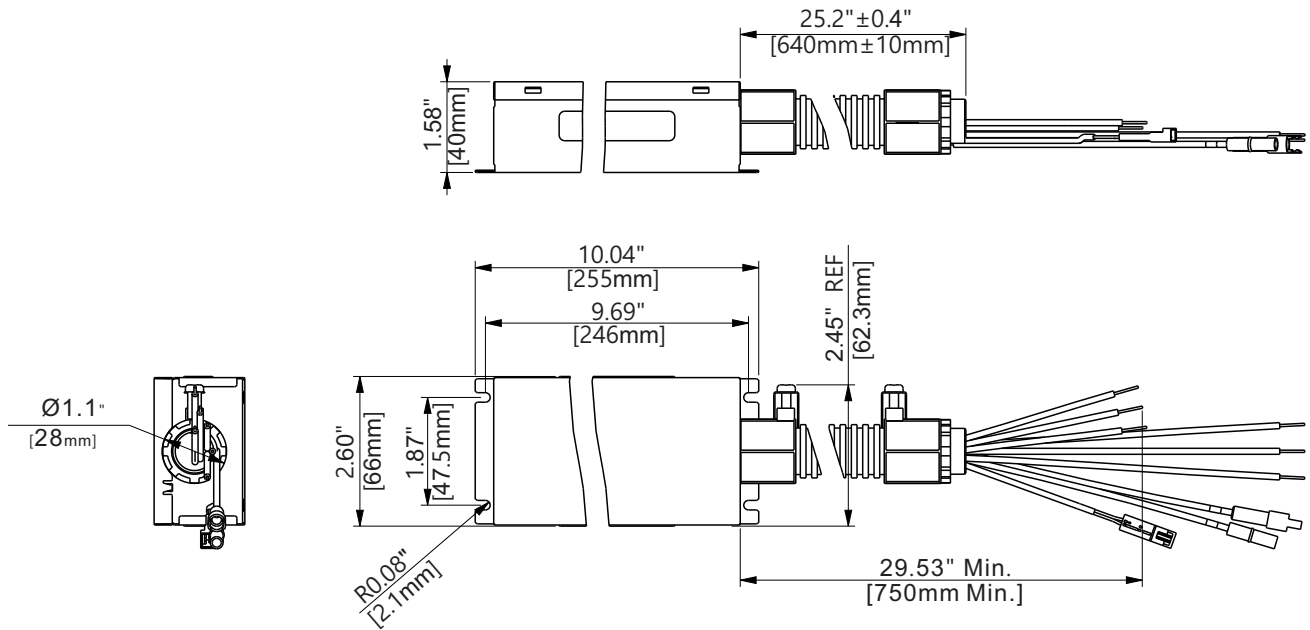


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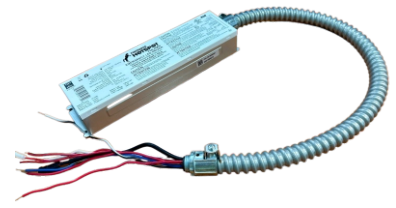


## Mechanical Data

Overall Dimensions	
Length	10.04" (255mm)
Width	2.6" (66mm)
Height	1.58" (40mm)



Tolerance=0.02"

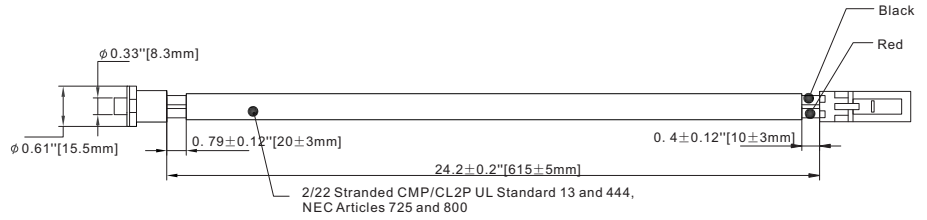


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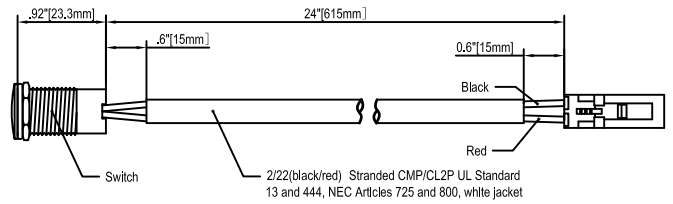
## Accessories

Test switch wire: FHS-TST-BC

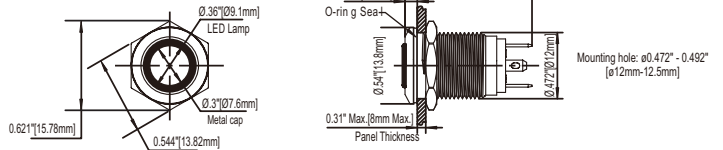


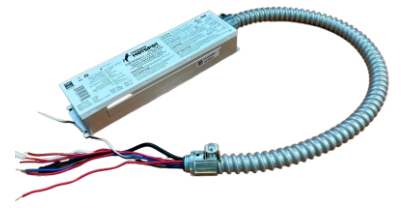
## Optional Accessories

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



Overall Switch Dimension





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## Accessories

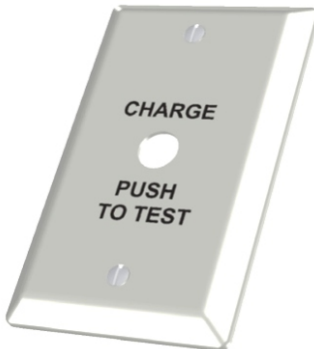
### Optional Accessories

Wall Plate: FHSWLPWH

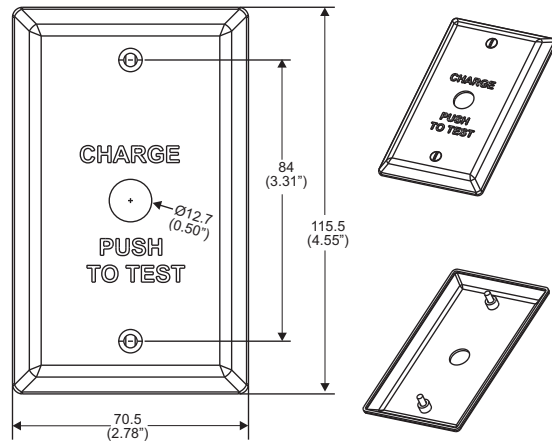


Wall plate and screw color:  
white with black lettering

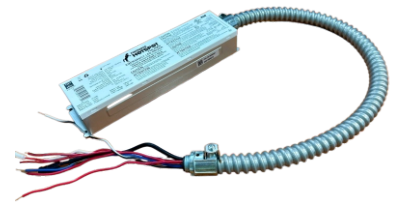
Wall Plate: FHSWLPPWH (Pure White Wall Plate)



Wall plate and screw color:  
Pure white with black lettering



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



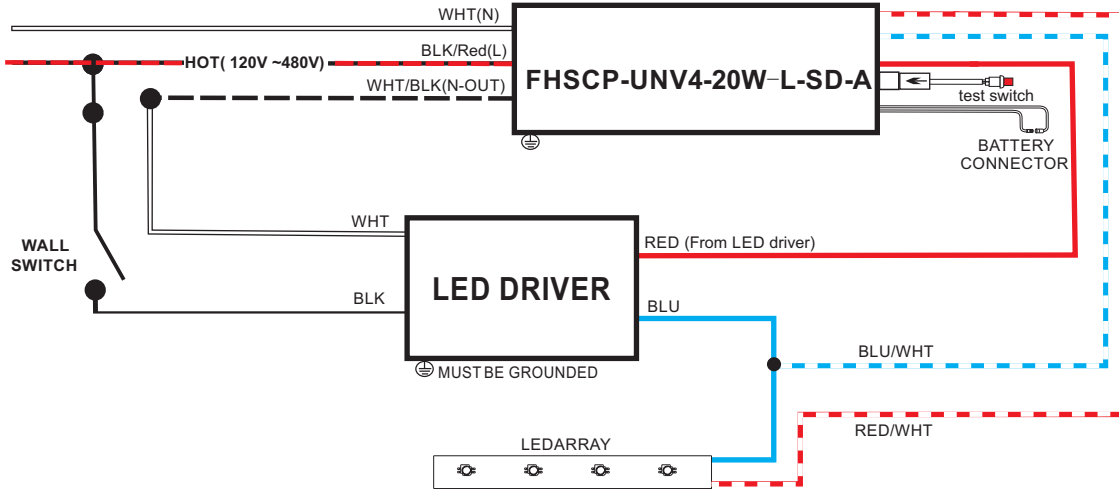
# FHSCP-UNV4-20W-L-SD-A



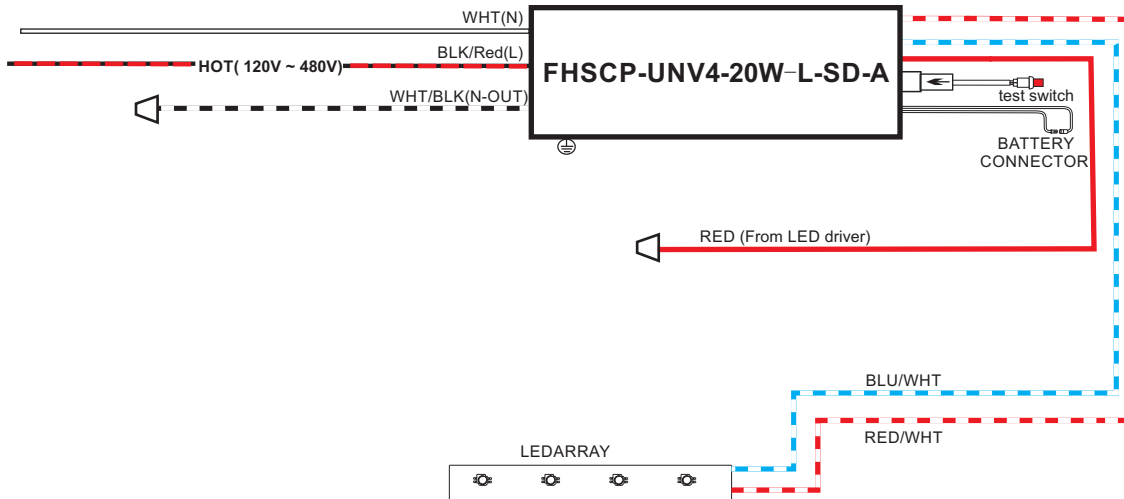
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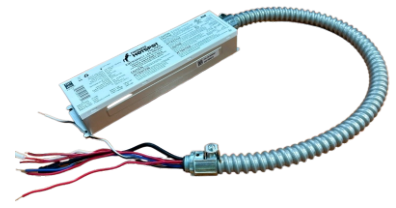


## Wiring Diagram



## Wiring Diagram (Emergency Only)





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## SELF-DIAGNOSTIC INSTRUCTIONS / OPERATION:

### 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 PACK not found. (Including Self-test/self-diagnostic)
 Flashing Red, 1s on / 1s off	Battery PACK fault. (Including Self-test/self-diagnostic)
 Flashing Green, 1s on / 1s off	Self-Diagnostic test underway
 Slow Flashing Green, 0.1s on / 3s off	Normal working in EM mode. (Including Self-test/self-diagnostic)
 Flashing Red, 4s on / 4s off	No load or output over voltage protection. (Including Self-test/self-diagnostic)
 Slow Red	Over current protection. (Including Self-test/self-diagnostic)
 Flashing Red, 0.5s on / 3s off	Self-diagnose process current fault or Battery voltage <87.5%.
 Flashing Green, 2s on / 0.5s off	Self-Diagnostic Enabled
 Flashing Green, 0.5s on / 2s off	Self-Diagnostic Disabled

## 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 (24) 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.

### Enable/Disable Self-Diagnostic Status:

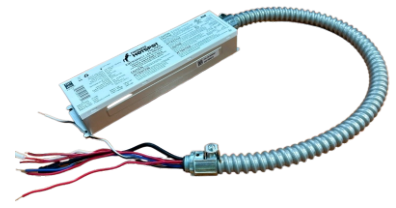
Fast click 2 times within 2s to query the Self-Diagnostic Enabled/Disabled status. The indicator would blink for current status for 3 cycles. 2.5s ON/0.5s OFF stands for Enabled. 0.5s ON/2.5sOFF stands for Disabled.

### Cancel reporting error:

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

### Turn Off EM Output:

Press and hold the test switch for 5 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.



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## Guidelines

### Grounding

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

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### Overload Protection

- If the maximum output power is exceeded, the LED driver switches off automatically, after elimination of the overload the normal operation is restored automatically.

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### LED Load

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

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### Mounting and cooling

- Above an output power of 10W, the driver need to be mounted on a heat conductive surface of at least 100cm<sup>2</sup>. Always test if the surface is sufficient enough before installing the LED driver.

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### Short Circuit Protection

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

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### No Load Operation

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

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### Hot Swapping

- This driver does not support the hot swapping of the LED's.

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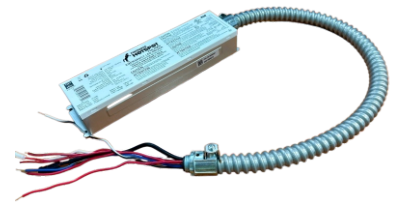
### Remote Mounting

- up to 50ft with 18AWG wire. Contact Fulham for higher remote distance.

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### Warranty

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



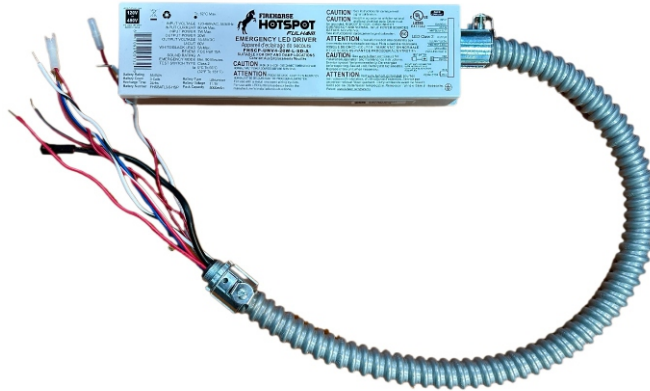
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## Part Number Matrix

<b>FHS</b>	<b>CP</b>	<b>UNV4</b>	<b>20W</b>	<b>L</b>	<b>SD</b>	<b>A</b>
<u>LED Driver</u>	<u>Driver Type</u>	<u>Input Voltage</u>	<u>Max Output Power</u>	<u>Case Type</u>	<u>Special Features</u>	<u>Special Features</u>
FHS = FireHorse HotSpot Driver	CP = Constant Power	UNV4 = 120V-480V	20W = 20 Watts	L = Long Case	SD = Self Diagnostic	A = Conduit

## Product Image: FHSCP-UNV4-20W-L-SD-A



## Packaging

Master Carton



OUTER DIMENSION		
L	W	H
564mm(22.21")	414mm(16.30")	268mm(10.55")
Net Weight	Gross Weight	QUANTITY
10kg 22.05lb	13.8kg 30.42lb	10