

FHSCP-UNV3-5W-L-SD



Emergency LED Driver

- Emergency LED Driver
- Universal Voltage: 100-347V~
- Output Voltage Range: 12-55V $\overline{\text{---}}$
- Output Current: 417mA Max
- Output Wattage: 5W
- Output Type: LED Class 2
- Number of Output Channels: 1 Channel
- Dry and Damp Location

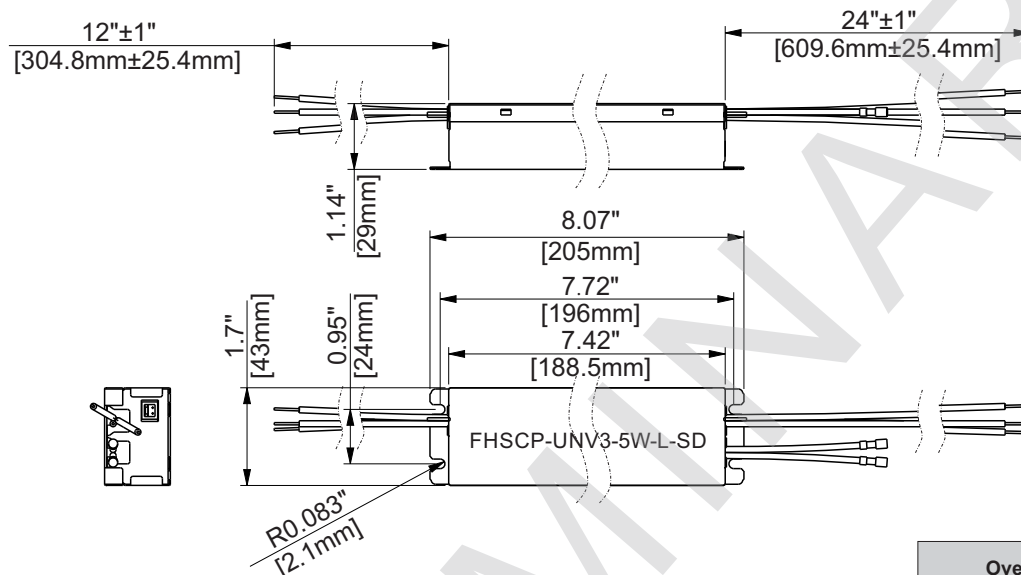
General Specifications

Input Voltage / Frequency	100-347V~ , 50/60Hz
Input Current	<0.08A
Input Power	<5W
Standby Power	0.85W
Input Power Pass-Through Rating (AC Driver Line)	3A
Max Output Rating (LED+ LED-	3A, 55V Max
Output Power	5W
Output Voltage Range	12-55V $\overline{\text{---}}$
Output Current Rated	0.417A Max
Number of Output Channels	1 Channel
Test Switch	Plastic Bi-Color Test Switch
Input Surge Protection	3KV/6KV Ring wave, 1KV/2KV Combine surge
Emergency Mode Protections	Output Open Protection
	Output Overload Protection
	Output Short Circuit Protection
	Output Temperature Protection
RFI/EMI	FCC Part 15 ClassA
Ambient Operating Temperature Range	0°C To 55 °C(32 °F To 131 °F)
Tc	TBD
Sound Rating	A
Battery Type	Ternary lithium battery
Battery Voltage	7.3V
Battery Capacity	2600mAh
Battery Rating	18.98Wh
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	5 Years From the date of manufacture when properly installed
Safety Standards	UL 924/UL 1310/CSA C22.2 No.141

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Mechanical Data



Overall Dimensions	
Length	8.07" [205mm]
Width	1.7" [43mm]
Height	1.14" [29mm]

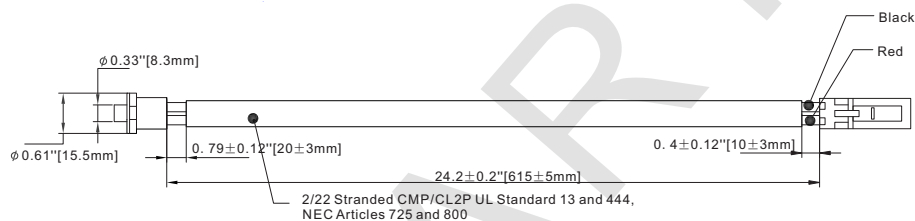
Tolerance=0.02"

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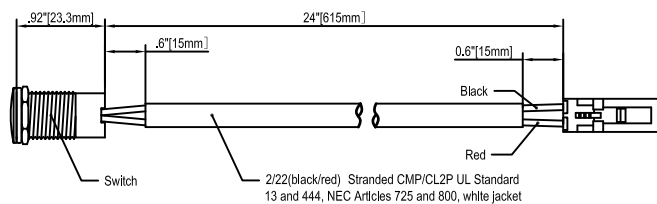
Accessories

Test switch wire: FHS-TST-BC

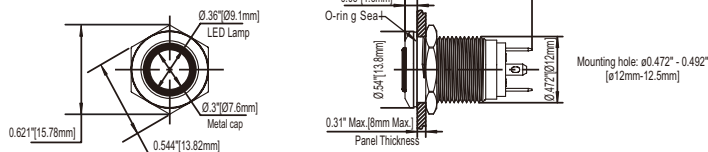


Optional Accessories

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



Overall Switch Dimension



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Accessories

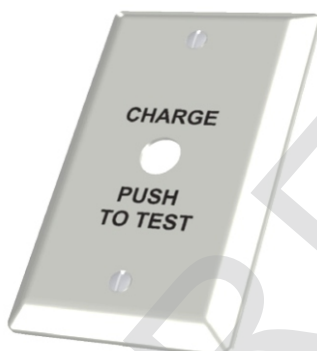
Optional Accessories

Wall Plate: FHSWLPWH

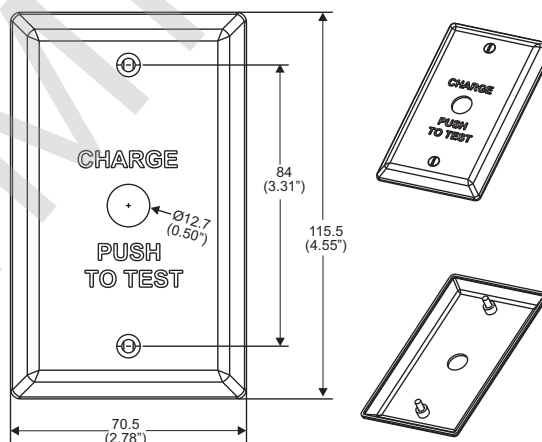


Wall plate and screw color:
white with black lettering

Wall Plate: FHSWLPPWH(Pure White Wall Plate)



Wall plate and screw color:
Pure white with black lettering

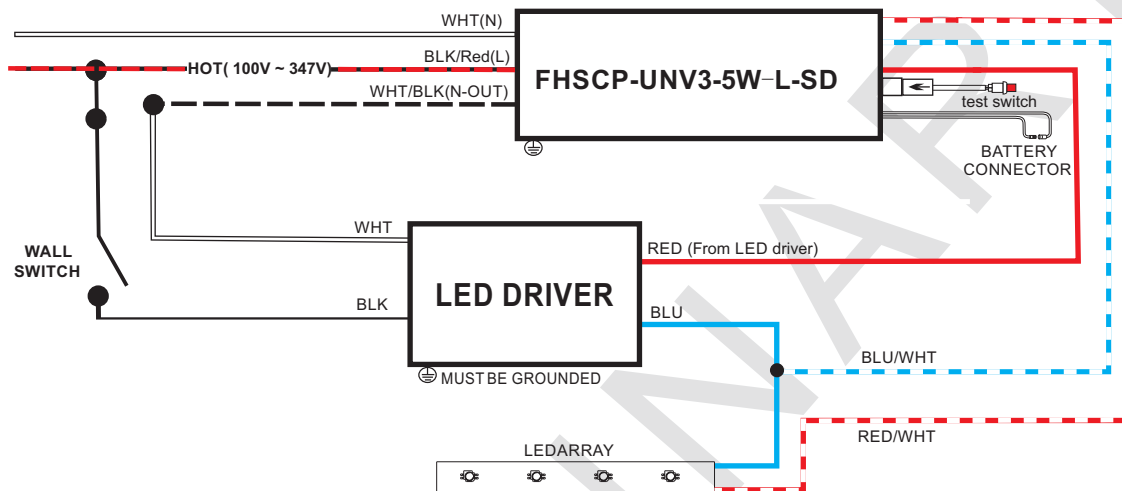


1. "Charge push to Test" plate
2. (2) 6-32 x 1/2" LG mounting screws

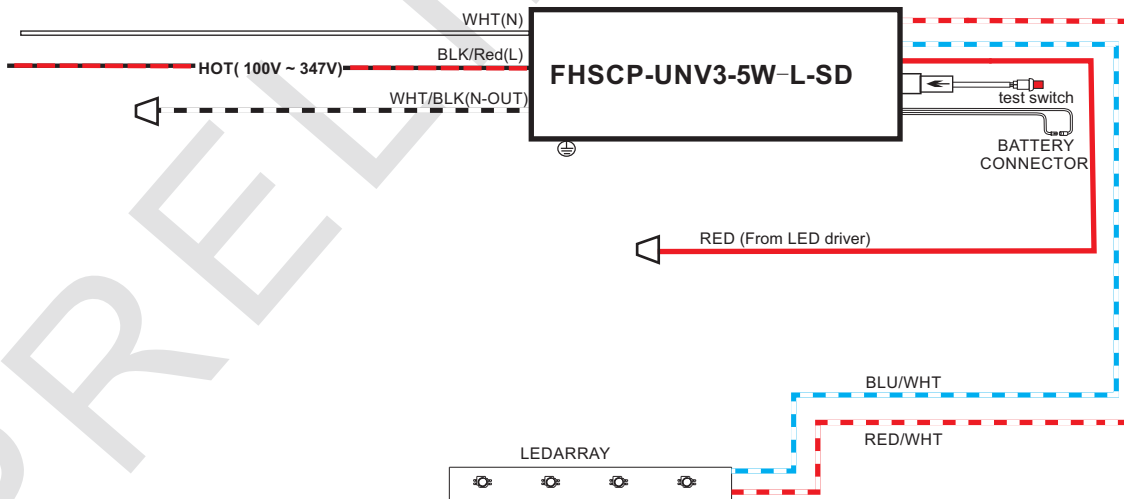
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Wiring Diagram



Wiring Diagram (Emergency Only)



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Test Switch Indicator Status:

LED Indicators Status	EM Driver Status / Mode
● Solid Green	System OK/AC OK.
⦿ 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-diagnose process ongoing.
⦿ Slow Flashing Green, 0.1s on / 3s off	Normal working in EM mode. (Including Self-test/self-diagnostic)
● Solid Red	Over voltage protection. (Including Self-test/self-diagnostic)
● Solid Red	Over current protection. (Including Self-test/self-diagnostic)
⦿ Flashing Green, 2s on/0.5s off	Self-diagnose enabled
⦿ Flashing Green, 0.5s on/2s off	Self-diagnose disabled
⦿ Flashing Red, 0.5s on/3s off	Self-diagnose process current fault or Battery voltage <87.5%.

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 and discharge for 90 minutes. 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 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.

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 40cm². 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 Latch ,need restart AC Power.

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

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>

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Part Number Matrix

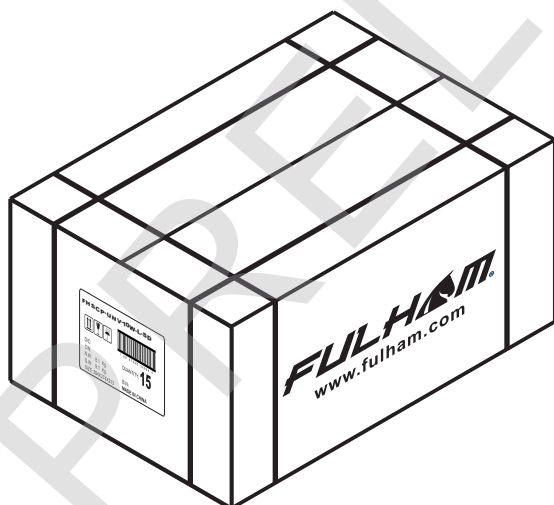
<u>FHS</u>	<u>CP</u>	<u>UNV3</u>	<u>5W</u>	<u>L</u>	<u>SD</u>
<u>LED Driver</u>	<u>Driver Type</u>	<u>Input Voltage</u>	<u>Power</u>	<u>Case Type</u>	<u>Special Features</u>
FHS = FireHorse HotSpot Driver	CP = Constant Power	UNV3 = 100V-347V	5W = 5 Watts	L = Long Case	SD = Self Diagnostic

Product Image: LED Driver

FHSCP-UNV3-5W-L-SD

Packaging

Master Carton



OUTER DIMENSION		
L	W	H
Net Weight	Gross Weight	QUANTITY