



# FHSCP-UNV-4W-L



RoHS  
COMPLIANT



## Constant Power LED Driver

- Emergency LED Driver
- Input Voltage: 120-277V~, 50/60Hz
- Output Voltage Range: 12-55V $\overline{\text{---}}$
- Output Current Range: 73-333mA
- Emergency Power: 4W
- Test Switch Indicator: Red Light
- IP20

### General Specifications

|                                                    |                                                                                                                                          |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Input Voltage / Frequency                          | 120-277V~, 50/60Hz                                                                                                                       |
| Input Current                                      | 100mA Max                                                                                                                                |
| Input Power                                        | 3W                                                                                                                                       |
| Standby Power                                      | <0.85W                                                                                                                                   |
| Input Power Pass-Through Rating (White/Black Lead) | 1A                                                                                                                                       |
| Max Output Rating (Red Lead)                       | 2A, 55V Max                                                                                                                              |
| Driver Type                                        | Constant Power                                                                                                                           |
| Current Rated                                      | 333mA @12V, 73mA @55V                                                                                                                    |
| Output Voltage Range                               | 12-55V $\overline{\text{---}}$                                                                                                           |
| Output Power                                       | 4W                                                                                                                                       |
| Output Class                                       | LED Class2                                                                                                                               |
| Number of Output Channels                          | 1 Channel                                                                                                                                |
| Test Switch Part Number                            | FHSCP-TST-WC                                                                                                                             |
| Test Switch Indicator                              | Red Light                                                                                                                                |
| Test Switch Remote Mounting Distance               | 65.6' (20m) Max.                                                                                                                         |
| Battery ON / OFF                                   | 18AWG Wire + Connector                                                                                                                   |
| Wire Type                                          | Input: 18AWG, Output: 18 AWG, Test Switch: 22AWG                                                                                         |
| Dry Location                                       | Dry Location                                                                                                                             |
| Input Surge Protection                             | Line-Neutral 1kV, Line & Neutral-Ground 2kV                                                                                              |
| Emergency Mode Protections                         | Battery Over Voltage Protection<br>Battery Under Voltage Protection<br>Output Open Circuit Protection<br>Output Short Circuit Protection |
| RFI / EMI                                          | FCC Part 15 ClassA                                                                                                                       |
| Ambient Operating Temperature Range                | 5°C To 55°C (41°F To 131°F)                                                                                                              |
| Sound Rating                                       | A                                                                                                                                        |
| Battery Type                                       | LiFePO4                                                                                                                                  |
| Battery Voltage                                    | 6.4V                                                                                                                                     |
| Battery Capacity                                   | 2Ah Max                                                                                                                                  |
| Battery Charge Current                             | 165mA                                                                                                                                    |
| Battery Recharge Time                              | 12 Hours                                                                                                                                 |
| Battery Discharge Time                             | Min 90 Minutes                                                                                                                           |
| IP Rating                                          | IP20                                                                                                                                     |
| Service Life                                       | 50,000 hours                                                                                                                             |
| Warranty                                           | 5 years                                                                                                                                  |
| Safety Standards                                   | UL924 (USA), CEC, CSA C22.2 No.141-10/cUL                                                                                                |



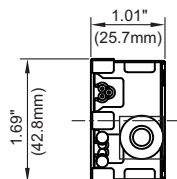
# FHSCP-UNV-4W-L



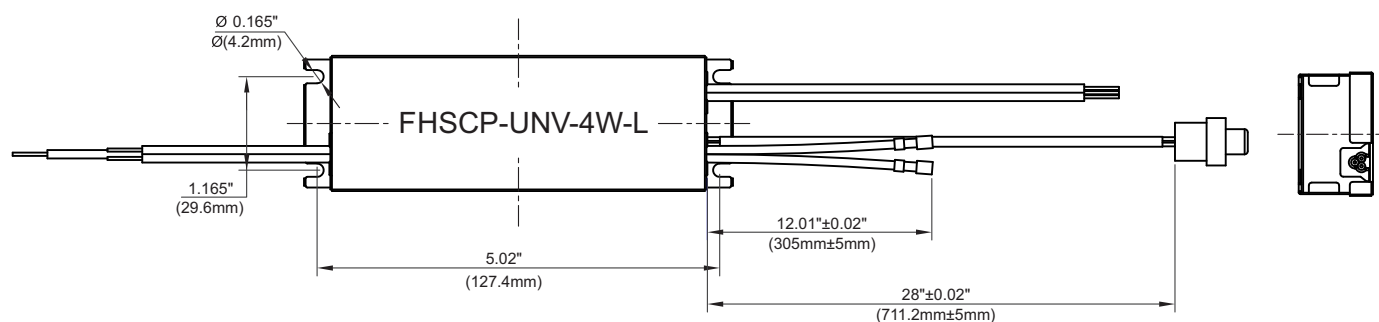
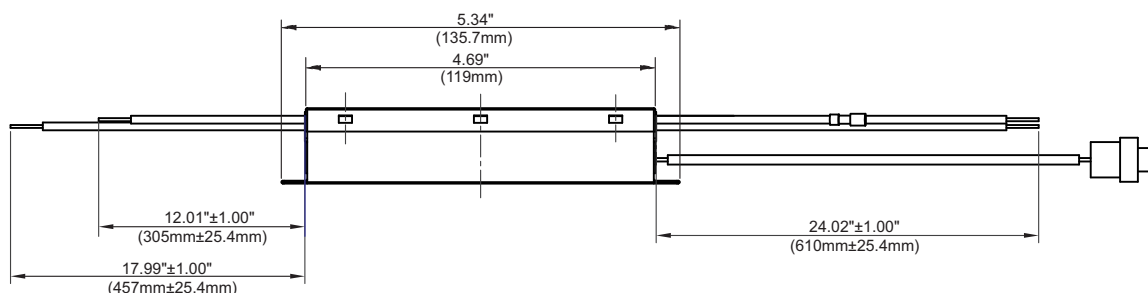
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## Mechanical Data



| Overall Dimensions |                    |
|--------------------|--------------------|
| Length             | 5.34"<br>(135.7mm) |
| Width              | 1.69"<br>(42.8mm)  |
| Height             | 1.01"<br>(25.7mm)  |
| Mounting           | 5.02"<br>(127.4mm) |



Tolerance =  $\pm$  [0.5mm]

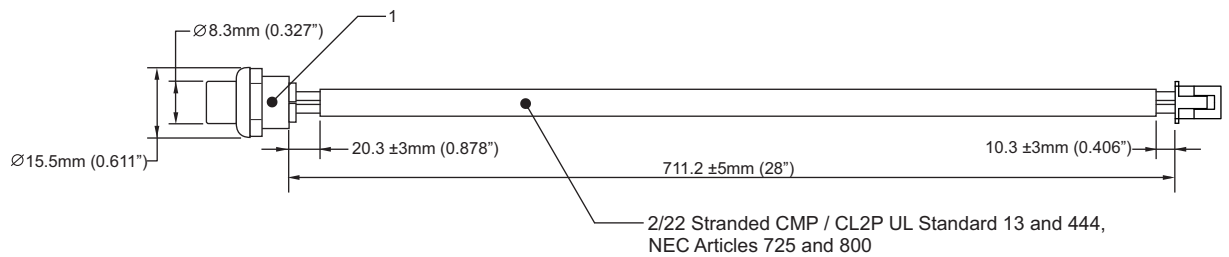


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## Accessories

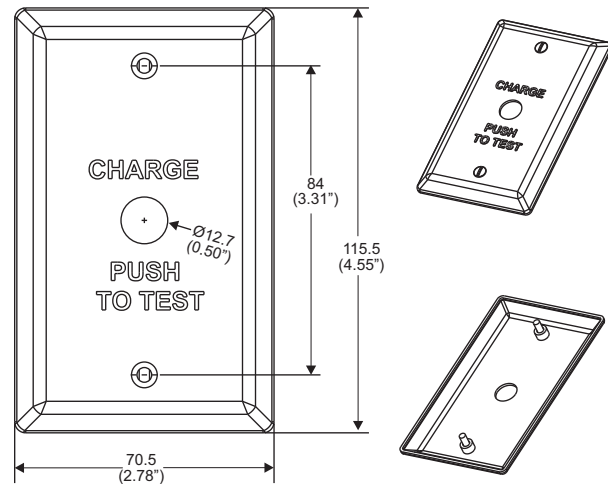
Test Switch: FHSCP-TST-WC



Wall Plate: FHSWLPWH (not included)



Wall plate and screw color:  
white with black lettering



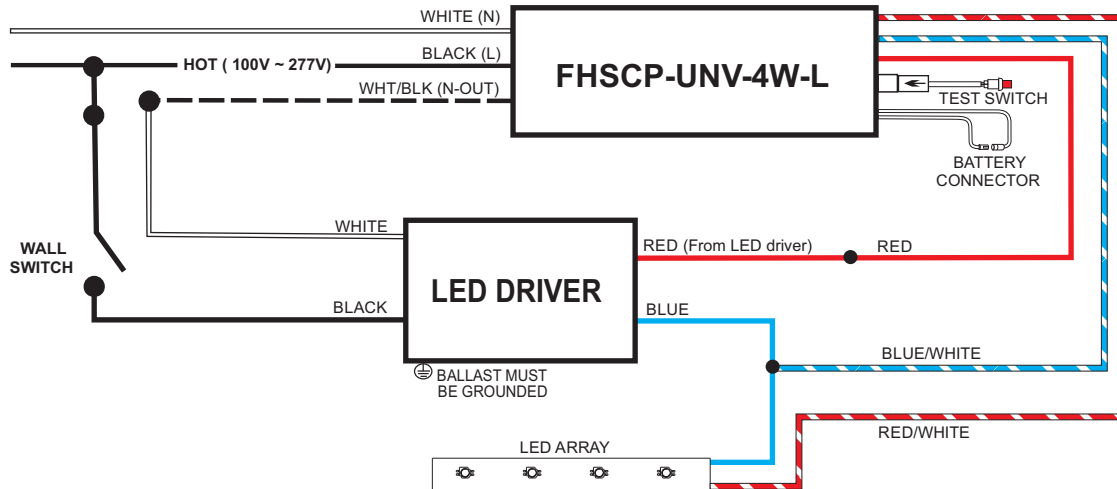
1. "Charge push to Test" plate
2. (2) 6-32 x 1/2" LG mounting screws



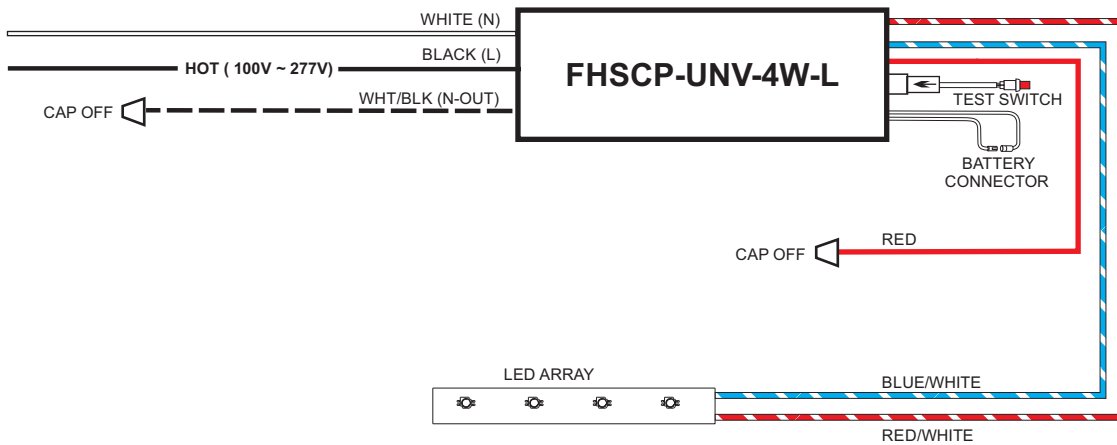
# FHSCP-UNV-4W-L



## Wiring Diagram



## Wiring Diagram (Emergency Only)





# FHSCP-UNV-4W-L



## Test Switch Indicator Status:

| LEDIndicatorsStatus          | EMDriverStatus/Mode            |
|------------------------------|--------------------------------|
| ● Solid Red                  | Normalworkingin AC mode.       |
| ● SlowFlashingRed,4son/1soff | Batterynotdetected mode.       |
| ● FlashingRed,1son/1soff     | Battery Failure Detected mode. |
| ● FlashingRed, 4son /4soff   | No Load/LED Load Failure mode. |
| ● FlashingRed, 0.1s on/3soff | Emergency mode.                |

## Test Switch Operations:

EM Test: Press and hold test button for 1s to enter EM mode for testing in normal AC powered.  
Press and hold test button for 10s to exit emergency mode.



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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 4W, the driver needs to be mounted on a heat conductive surface of at least 40cm<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 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>



# FHSCP-UNV-4W-L



## Part Number Matrix

**FHS**

LED Driver

FHS = FireHorse HotSpot Driver

**CP**

Driver Type

CP = Constant Power

**UNV**

Input Voltage

UNV = 120V-277V

**4W**

Power

4W = 4 Watts

**L**

Case Type

L = Long Case

## Product Image: LED Driver

FHSCP-UNV-4W-L



## Packaging

Master Carton



| OUTER DIMENSION       |                      |               |
|-----------------------|----------------------|---------------|
| L                     | W                    | H             |
| 15.52"(394mm)         | 10.79"(274mm)        | 8.268"(210mm) |
| Net Weight            | Gross Weight         | QUANTITY      |
| 18.52lbs.<br>(8.4kg.) | 20.72lbs.<br>(9.4kg) | 30pcs.        |