# FHS1-UNV-3.6L
## SPECIFICATIONS
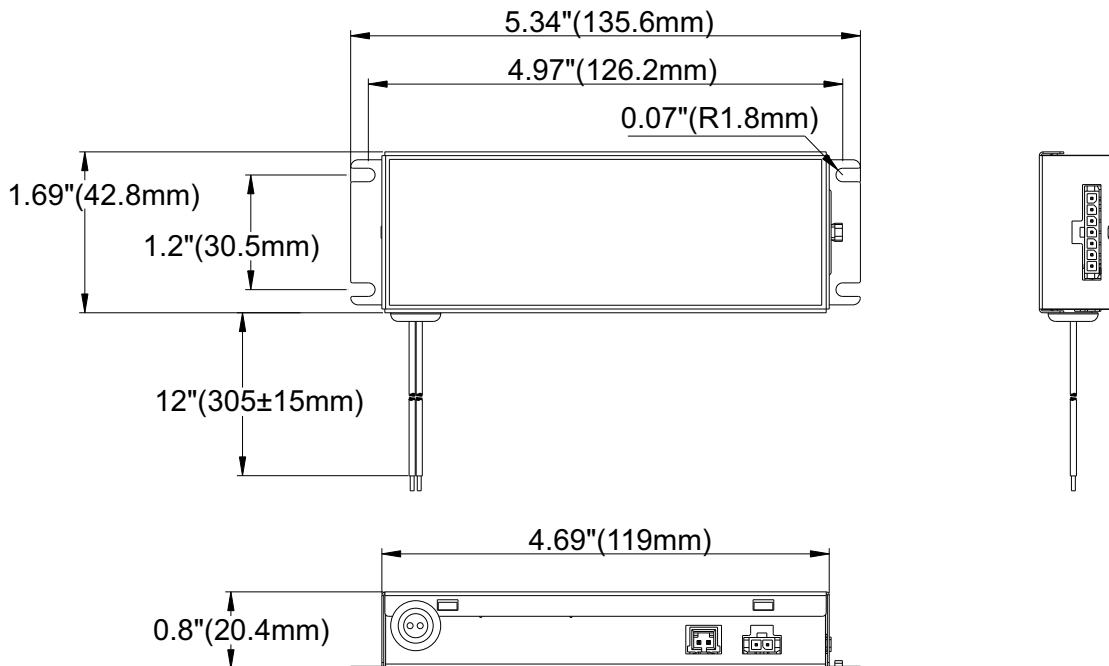
**FULHAM HotSpotLED™**

BC · c ᴿᵁ US · E313578

- Emergency LED Driver
- Universal Voltage: 100-277VAC, 50/60Hz
- Output Wattage: 1-10W
- Output Current: 300mA Max.

- Output voltage :6VDC

This Driver Will Operate The Following LED Modules: Any LED module designed to accept input voltage of 6VDC and can operate up to current of 300mA.

## General Specifications

| | |
|---|---|
| Input  Voltage | 100-277VAC, 50/60Hz |
| Input  Current | 0.06A  Max. |
| Input Power | 10W MAX |
| Standby Input Power | <0.8W |
| Driver Type | Constant Voltage |
| Output Current | 300mA Max. |
| Output Voltage | 6VDC |
| Output Power | 1-10W (1-6W @ 3000mA Battery, 1-8W @ 4000mA Battery, 1-10W @ 8000mA Battery) |
| Number of Output Channels | 1 Channel |
| RFI/EMI | FCC Part 15  Class A |
| Output Type | LED Class 2 |
| Battery Type | NiCd 3.6VDC |
| Battery Capacity Available | 3000mAh, 4000mAh, 8000mAh |
| Battery Recharge Time | 32 Hours (3000mAh), 32 Hours (4000mAh), 48 Hours (8000mAh), |
| Battery Discharge Time | 90 Minutes Min. |
| Ambient Operating Temperature Range | 0°C to 50°C (32°F to 122°F) |
| Input Surge Protection | MOV |
| Protections | Output Short Circuit Protection |
| | Battery Over Discharge Protection |
| Service Life | 50,000 hours |
| Approvals / Class | UL 1310/CLASS 2/UL924/CEC |

## Mechanical Data



5.34"(135.6mm)
4.97"(126.2mm)
0.07"(R1.8mm)
1.69"(42.8mm)
1.2"(30.5mm)
12"(305±15mm)
4.69"(119mm)
0.8"(20.4mm)
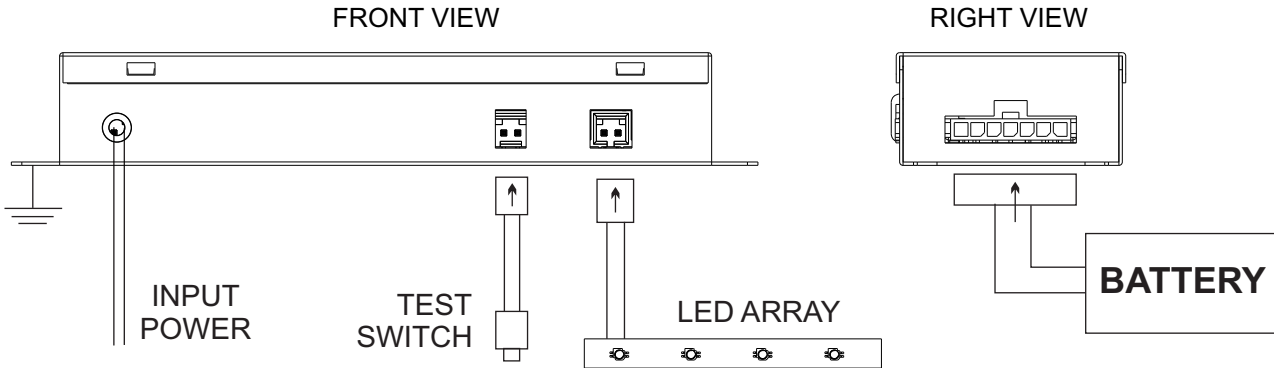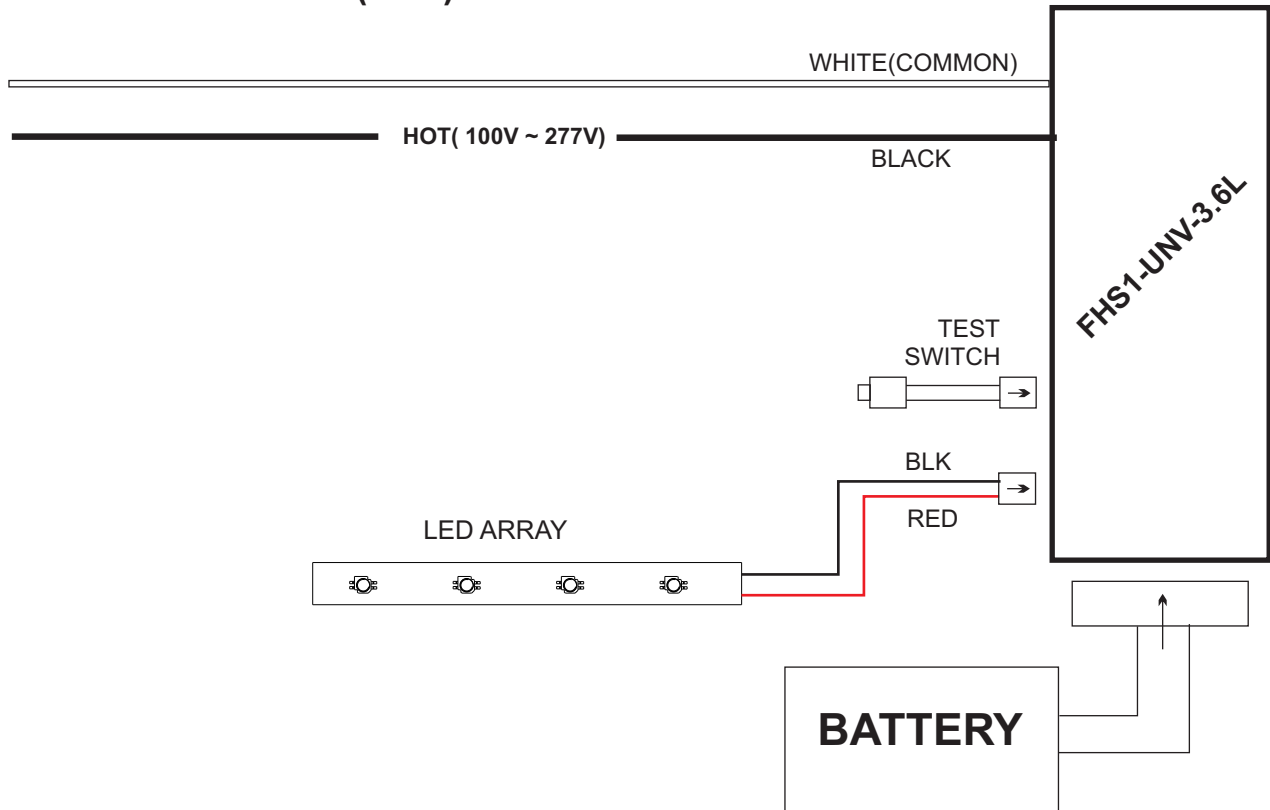
Case Tolerance=±0.02"

Fulham extends a limited warranty to the original purchaser or first user for a period of 5 years from the date of manufacture when properly installed and operated under normal conditions of use. For complete terms and conditions, please refer to the Warranty Center at www.fulham.com. Specifications subject to change without notice.
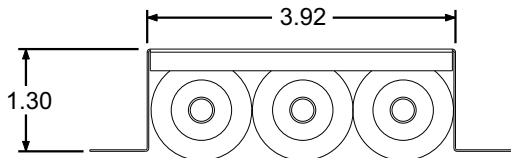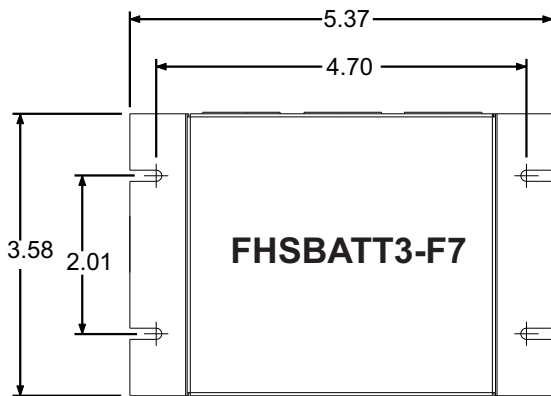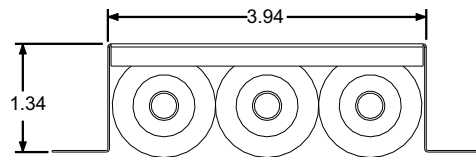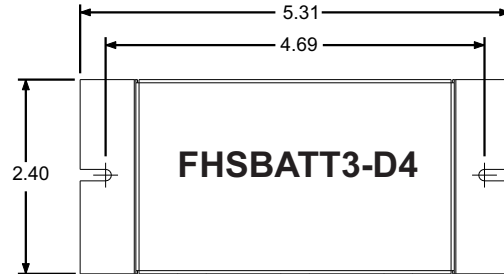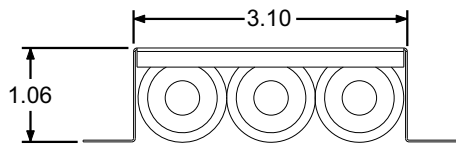
**Wiring Diagrams 1**

FRONT VIEW

RIGHT VIEW

INPUT POWER

TEST SWITCH

LED ARRAY

BATTERY

## WIRING DIAGRAM (TYP)

WHITE(COMMON)

**HOT( 100V ~ 277V)**

BLACK

FHS1-UNV-3.6L

TEST SWITCH

BLK

RED

LED ARRAY

BATTERY

## Available battery pack



FHSBATT3-C3



FHSBATT3-D4



FHSBATT3-F7

| Battery Pack | Output Power | Time |
|---|---|---|
| FHSBATT3-C3 | 4W | 145 Minutes |
| FHSBATT3-C3 | 6W | 90 Minutes |
| FHSBATT3-D4 | 4W | 200 Minutes |
| FHSBATT3-D4 | 6W | 125 Minutes |
| FHSBATT3-D4 | 8W | 90 Minutes |
| FHSBATT3-F7 FHSBATT3-F7L | 4W | 360 Minutes |
| FHSBATT3-F7 FHSBATT3-F7L | 6W | 235 Minutes |
| FHSBATT3-F7 FHSBATT3-F7L | 8W | 175 Minutes |
| FHSBATT3-F7 FHSBATT3-F7L | 10W | 135 Minutes |



FHSBATT3-F7L

WIRES

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E313578

## Available array shapes

FHS2-AR-4W-C

FHS3-AR-10W-SH
FHS3-AR-6W-SH
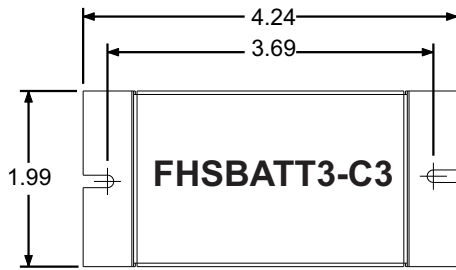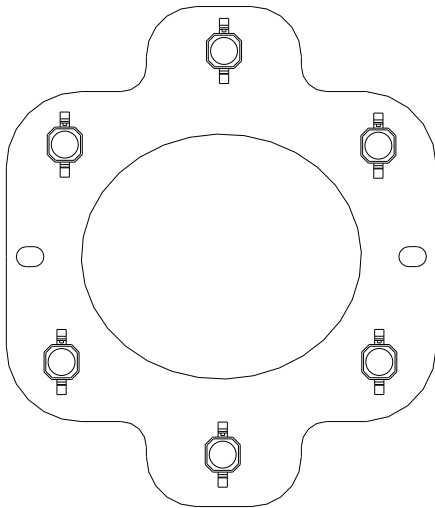
FHS5-AR-6W-CL
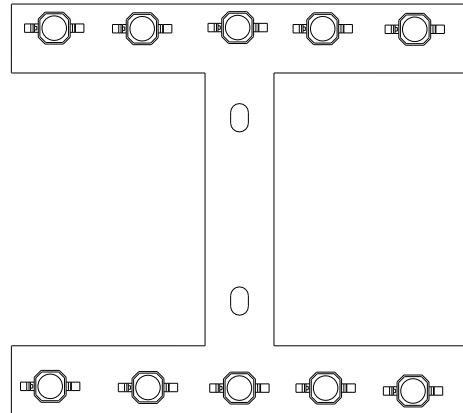
FHS4-AR-10W-LH
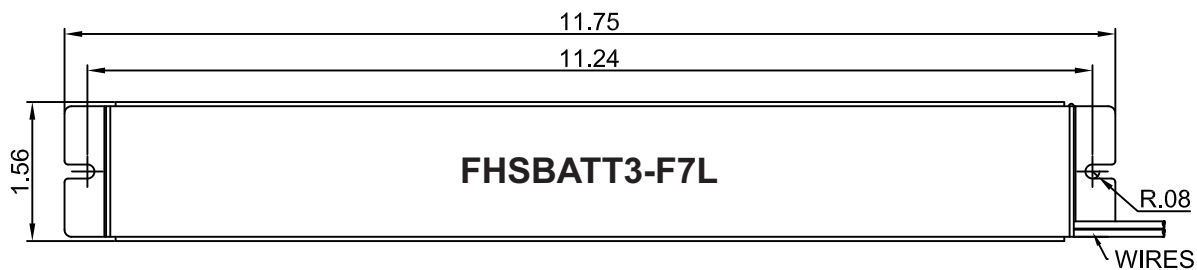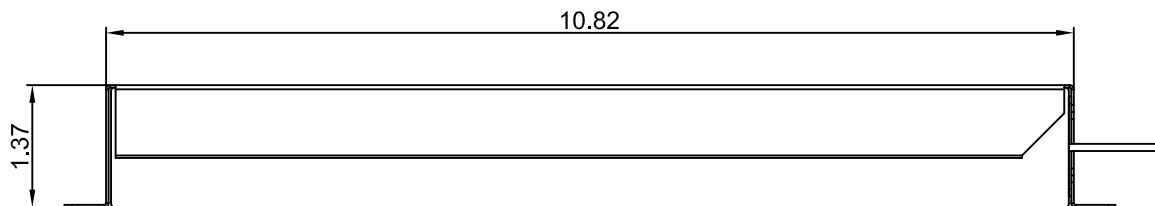FHS4-AR-8W-LH

FHS1-AR-4W-L

FHS6-AR-3W-L

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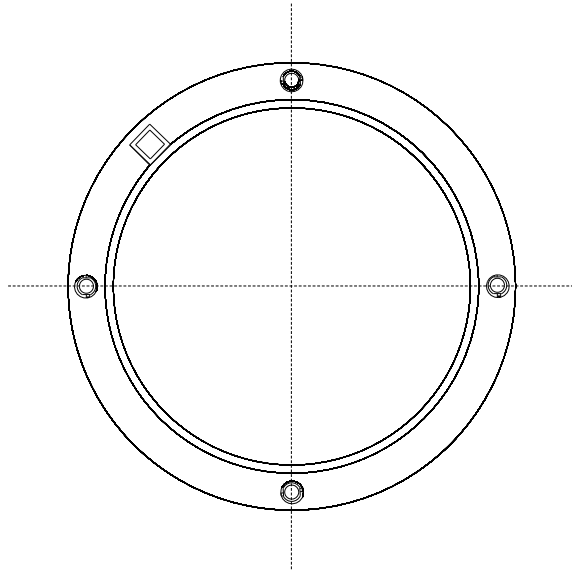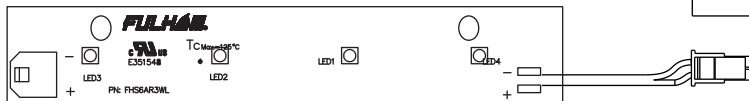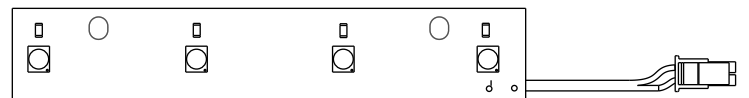
## TEST SWITCH INDICATOR STATUS:
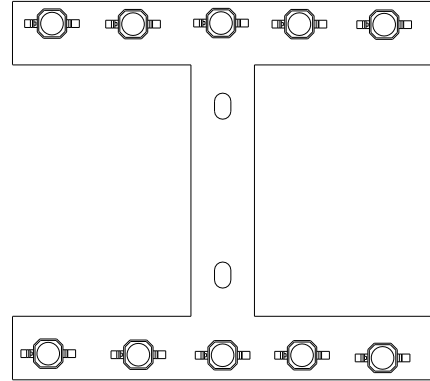
### FHS1-UNV-3.6L Status Indication - Single Color Indicator

| LED indicator | Status | Comment | Note |
|---|---|---|---|
| Permanent Red Light/Solid | System OK | AC mode | |
| Blinking ON (4.5 sec on – 0.5 sec off) | Self-diagnose test underway | Self-Diagnostic | |
| Blinking OFF (0.5 sec on – 4.5 sec off) | Charge circuit is broken | Replace EM Driver | |
| Fast Flashing (0.5 sec on - 0.5 sec off) | Battery not connected | Connect battery pack. | |
| Fast Flashing (0.5 sec on - 0.5 sec off) | Battery failure | Change the battery | |
| Very Slow Flashing (4 sec on – 4 sec off) | Over Circuit Protection Error Triggered. | Check LED load or check EM driver. | AC power will need to be cycled on/off as well as the battery re-inserted. |

## TEST SWITCH OPERATIONS:

1.     EM TEST : Press and hold test button for more than one second to enter EM mode for testing.

2.     Manual Self-Diagnostic : After charging the battery for the specified recharge time, quickly press the test button three times within two seconds to force the controller to enter a Self-Diagnostic cycle. To quit the self-diagnostic cycle after engaged press and hold the test button for ten seconds.

3.     Enable/Disable Self-Diagnostic Status : Quickly press the test button two times within two seconds ,the monochromatic lamp displays the status of Self-Diagnostic Enable / Disabled settings.

4.     Enable/Disable Auto Self-Diagnostic : Press and hold the test button for two seconds, then release and quickly press the test button two times, then release and press and hold the test button for two more seconds. When properly executed the indicator on the test button will display the flash mode for the Enable/Disable status. A flash of 2.5S on - 0.5S off means "Enabled", while a flash of 0.5S on - 2.5S off means "Disabled", the flashing will last for a few cycles.

## 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) minute self-check every 12 months. After every self-check the LED indicator light will indicate a status signal.  Check indicator status chart above 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 disabled