FHSCP-UNV-15P-S-SD

Programmable Emergency LED Driver

- Emergency LED Driver
- Universal Voltage: 120-277VAC, 50/60Hz
- Output Voltage Range: 15-55V ⎓
- Output Current: 55-666mA
- Output Wattage: 3W-15W (Factory default 15W)
- Output Type: LED Class 2
- Number of Output Channels: 1 Channel
- Dry and Damp

General Specifications

Input Voltage / Frequency	120-277VAC, 50/60Hz
Input Current	0.12A Max
Input Power	6.5W Max TBD
Standby Input Power	<0.85W
Input Power Pass-Through Rating (AC Driver Line)	2A
Max Output Rating (LED+ LED-Terminal)	3A, 55V Max
Output Type	LED Class 2
Output Power	3W-15W
Output Voltage Range	15-55V ⎓
Output Current Rated	55-666mA
Number of Output Channels	1Channel
Input Surge Protection	3KV and 6KV Ring Wave
Protections	Output Open Protection
	Output Overload Protection
	Output Short Circuit Protection
	Output Temperature Protection
RFI/EMI	FCC Part15A
Ambient Operating Temperature Rang	0°C To 55°C (32°F To 131F°)
Sound Rating	A
Battery Type	Ternary Lithium Battery
Battery Voltage	10.95V
Pack Capacity	5000mAh
Battery Rating	54.75Wh
Battery Count	3 Cells
Battery Recharge Time	24 Hours Max.
Battery Discharge Time	1.5 Hours Min.
Test Switch Remote Mounting Distance	20' (6m) Max.
Service Life	50,000 hours
Warranty	5 years
Safety Standard	UL 924, UL 1310, CSA C22.2 No.141-10

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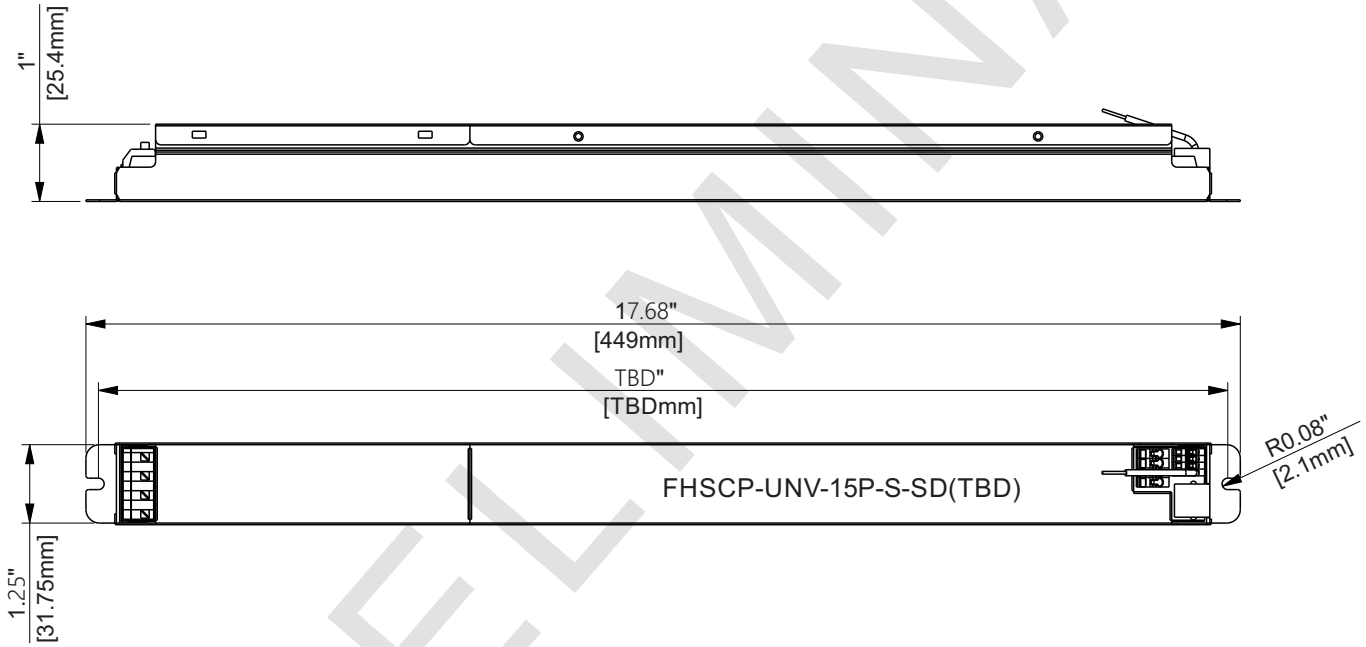
Mechanical Data

Overall Dimensions	
Length	17.68" [449mm]
Width	1.25" [31.75mm]
Height	1" [25.4mm]



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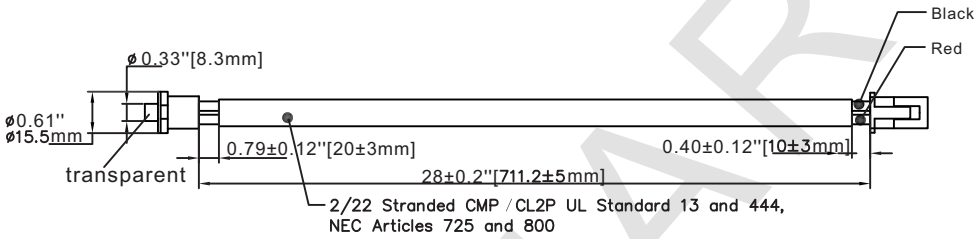
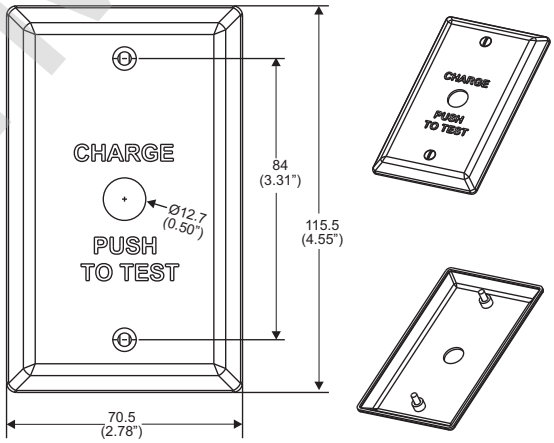
Accessories

Test switch wire



Wall Plate: FHSWLPWH

Wall plate and screw color:
white with black lettering



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

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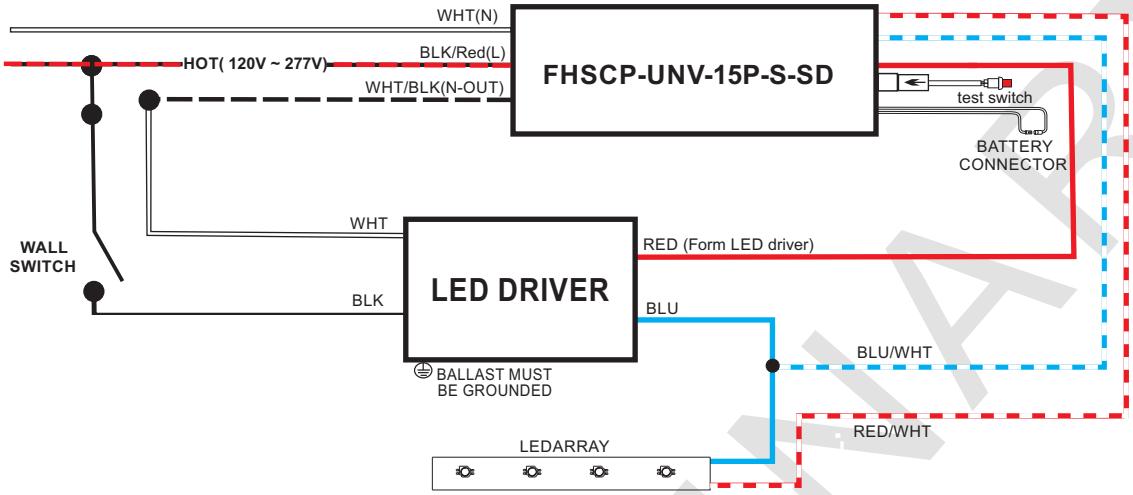
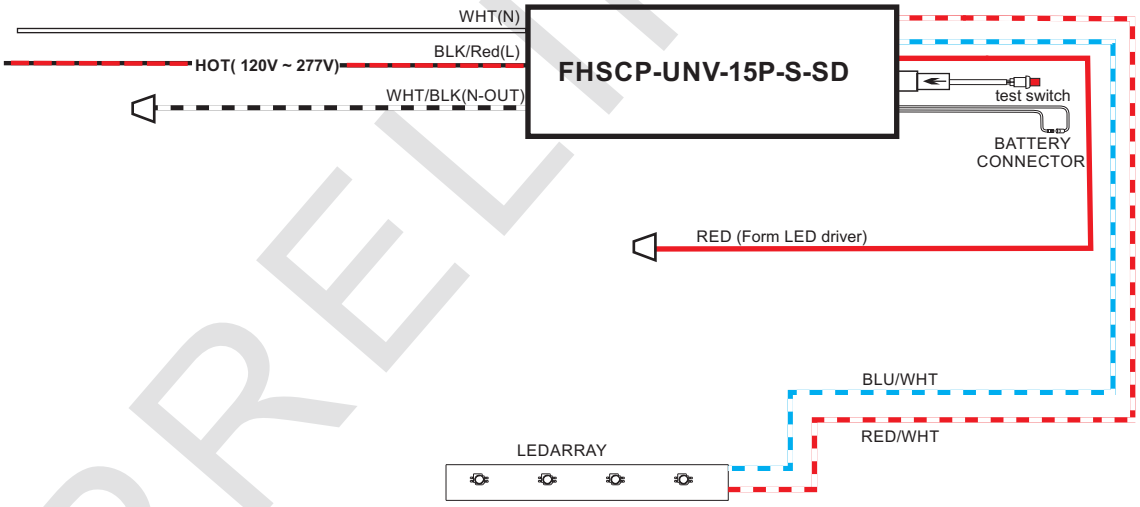
Wiring Diagram



Wiring Diagram (Emergency Only)



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) 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
Fast Flashing Red, 0.1s on / 0.1s off	Abnormal driver performance, replace driver
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
Slow Flashing Red, 0.5s on / 0.5s off	Charge circuit failure replace driver

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 (12) hours or battery fully charged, quickly press the test button three(3) times within two (2) seconds to force the controller to enter Self-Diagnostic cycle. To quit the Self-Diagnostic cycle after engaged, press and hold the test button for ten (10) 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.

Load Test:
When the test button is flashing red 4s on/4s off, press and hold the test switch for 10s, the unit will enter Self -Diagnostic mode.

Turn O ffEM Output:
Press and hold the test switch for 3 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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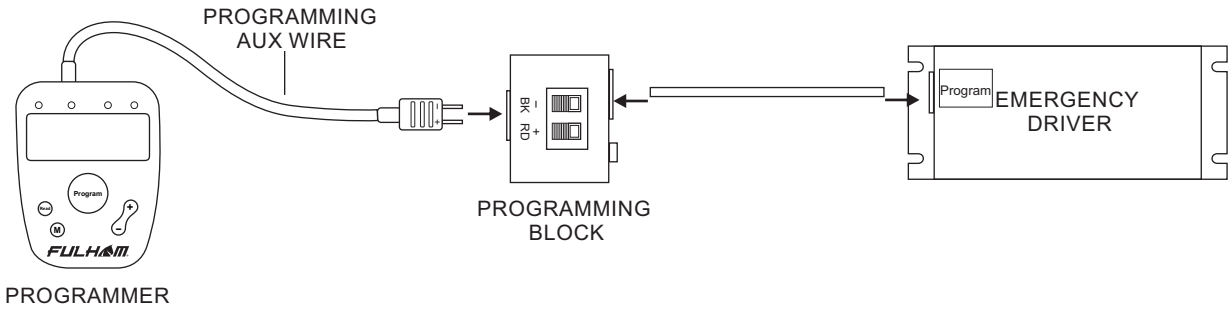
Programming:

The FHSCP-UNV-10P-S-SD-W is programmed through the program wire on the emergency driver with the TPSB-100 programmer.
Unless otherwise programmed the output will self-program to the maximum rating of the battery.
Customer must use the programming harness and programming block that comes with the TPSB-100.

Programming Wire Diagram



Programming Features

- Output EM Power - 3W to 10W
- Enable / Disable Self-Diagnosic

SmartSet Software

TPSB-100 SmartSet Controller

* For more detailed programming instructions please see our Programming Instructions and Design Guide found on our website:
  - https://www.fulham.com/PDFs/SpecSheets/Fulham-Design-Guide-Programmable-Drivers.pdf

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Guidelines

Grounding

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

Over temperature protection

- The Fulham's Hotspot Constant Power Emergency LED drivers are protected against thermal overload. If the temperature limit is exceeded, the output current is reduced.

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 10W, the driver needs to be mounted on a heat conductive surface of at least 100cm². 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 15ft 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

FHSCP-UNV-15P-S-SD

Part Number Matrix

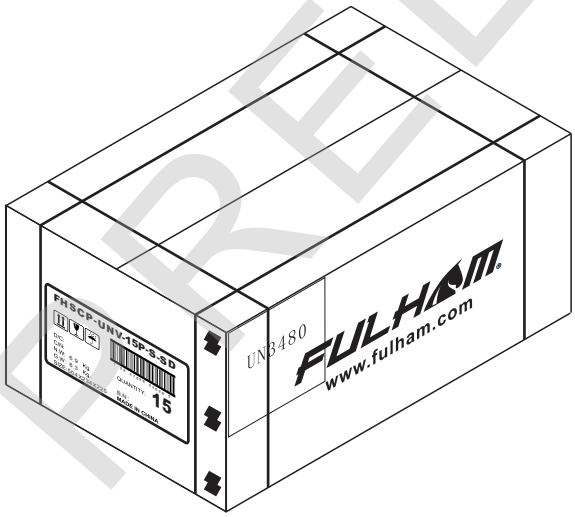
FHS	CP	UNV	15	P	S	SD
LED Driver	Output Type	Input Voltage	Power	Characteristic	Case Type	Special Features
FHS = Fire Horse EM Driver	CP= Constant Current	UNV= 120V-277V	15= 15W	P = Programmable	Stick	SD= Self Diagnostic

Product Image: LED Driver

FHSCP-UNV-15P-S-SD

Packaging

Master Carton



OUTER DIMENSION		
L	W	H
Net Weight	Gross Weight	QUANTITY