





Programmable Emergency LED Driver

- Emergency LED Driver
- Universal Voltage: 120-277V~
- Output Voltage Range: 15-55V ----
- Output Current: 55-666mA

General Specifications

- Output Wattage: 3W-10W (Factory default 10W)
- Output Type: LED Class 2, Class 2
- Number of Output Channels: 1 Channel

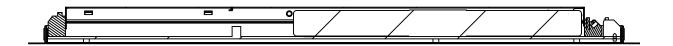
eneral Specifications				
Input Voltage / Frequency	120-277V~, 50/60Hz			
Input Current	0.1A Max			
Input Power	5W Max			
Standby Input Power	<0.85W			
Input Power Pass-Through Rating (AC Driver Line)	2A			
Max Output Rating (LED+ LED- Terminal)	3A, 55V Max			
Output Type	LED Class 2,Class 2			
Output Power	3W-10W			
Voltage Range	15-55V			
Current Rated	55-666mA			
Number of Output Channels	1Channel			
Program Port	I ² C			
Input Surge Protection	Line - Neutral 1kV, Line & Neutral - Ground 2kV and 3KV or 6KV Ring Wave			
Protections	Output Open Protection			
	Output Overload Protection			
	Output Short Circuit Protection			
	Output Temperature Protection			
Emergency Mode	90 Minutes Min			
RFI/EMI	FCC Part15A EN55015			
Ambient Operating Temperature Rang	10°C To 55°C (50°F To 131F°) (>7W)			
	0°C To 55°C (32°F To 131F°) (≤7W)			
Sound Rating	Α			
Battery Type	Lithium			
Battery Voltage	11.1V			
Pack Capacity	2400mAh			
Battery Rating	25.92Wh			
Battery Count	3 Cells			
Battery Recharge Time	12 Hours			
Battery Discharge Time	Min 1.5 Hours			
Test Switch Remote Mounting Distance	20' (6m) Max.			
Service Life	50,000 hours			
Warranty	5 years			
Safety Standard	UL924, CSA C22.2 No.141-10/cUL			
	EN61347-1, EN61347-2-7, EN62384, EN60598-2-22, EN50172			
	CEC, MSDS, DGM EEE C62.41.2-2002			
	EN61000-3-2, EN61000-3-3, EN61000-4-2, EN61000-4-3, EN61000-4-4			
	EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11, EN61000-4-29			

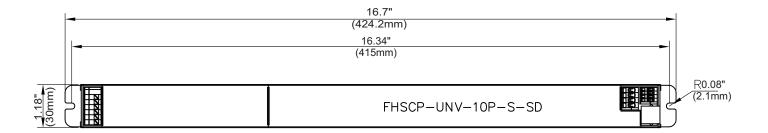


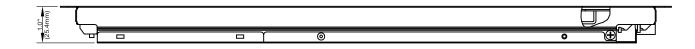
EVENT CONTRACTOR CONTR

Mechanical Data

Overall Dimensions				
Length	16.7" (424.2mm)			
Width	1.18" (30mm)			
Height	1.0" (25.4mm)			







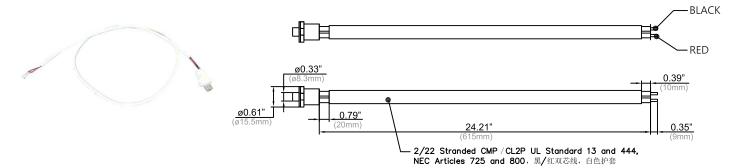






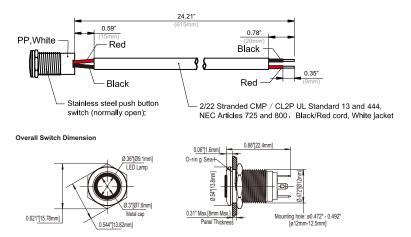
Accessories

Test Switch (Included)



Wet Location Test Switch: FHS-TSTWL-BC (Optional)

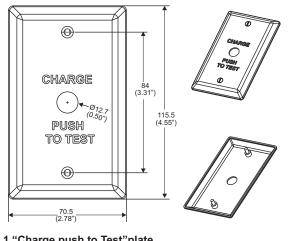




Wall Plate: FHSWLPWH



Wall plate and screw color white with black lettering

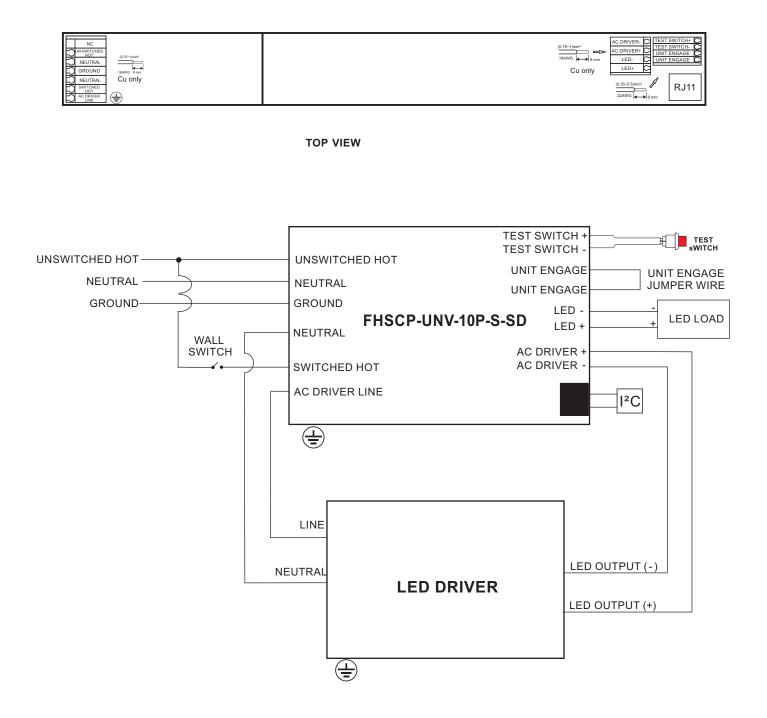


1."Charge push to Test"plate 2. (2) 6-32 x ½"LG mounting screws





Wiring Diagram









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 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 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		
븆 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 Off EM Output:

Press and hold the test switch for 10 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.

Fulham Co. Inc.: 12705 South Van Ness Ave., Hawthorne, CA 90250 Tel.: 1-323-779-2980 Fax.: 1-323-754-9060. order@fulham.com Specifications subject to change without notice.

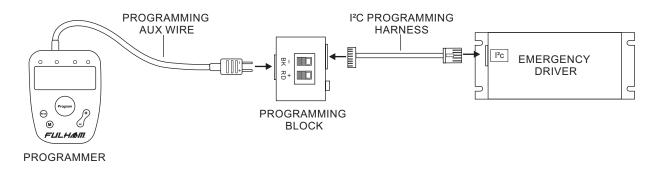




Programming:

The FHSCP-UNV-10P-S-SD is programmed through the I²c port 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 I²c 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



- * 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







Guidelines

Grounding

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

Over temperature protection

The Fulham Hotspot Plus LED drivers are protected against thermal overload. If the temperature limit is exceeded, the
output current is reduced.

LED load

 Fulham Hotspot Plus 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 20W, the driver needs to be mounted on a heat conductive surface of at least 200cm². 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.

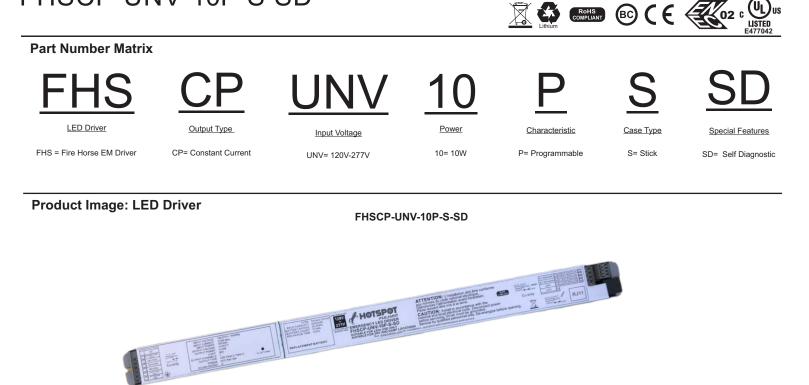
Warranty

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



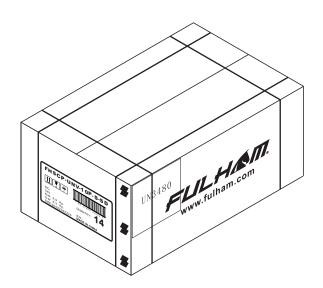


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Packaging

Master Carton



OUTER DIMENSION						
L	V		V	Н		
19.84" (504r	19.84" (504mm)		34mm)	8.86" (225mm)		
Net Weight	Gross Weight		QL	JANTITY		
15.21lbs. (6.9kg.)	18.30lbs. (8.3kg)			14pcs.		