








FHSCP-UNV-10P-S-SD



Programmable Emergency LED Driver

-  Programmable Output –3W - 10W
-  15-55VDC - Output Voltage
-  Emergency Battery Disengage
-  Optional: Brushed Steel Plenum Rated Bi-Color Wet Location Test Switch
-  Self-diagnostic Standard

General 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)	5A
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	1 Channel
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
Emergency Mode	90 Minutes Min
RFI/EMI	FCC Part15A
Ambient Operating Temperature Rang	0°C To 55°C (32°F To 131°F) Note: Effective on date codes after July 2025
Tc	64°C (147.2 °F)
Sound Rating	A
Battery Type	Lithium-ion
Battery Voltage	10.95V
Pack Capacity	2600mAh
Battery Rating	28.47Wh
Battery Count	3 Cells
Battery Recharge Time	24 Hours
Battery Discharge Time	Min 1.5 Hours
Test Switch Remote Mounting Distance	20' (6m) Max.
Service Life	50,000 hours
Warranty	5 years
Compliance standards	UL 924, CSA C22.2 No.141, cUL, UL 1310, CSA C22.2 No.223 CEC



FHSCP-UNV-10P-S-SD



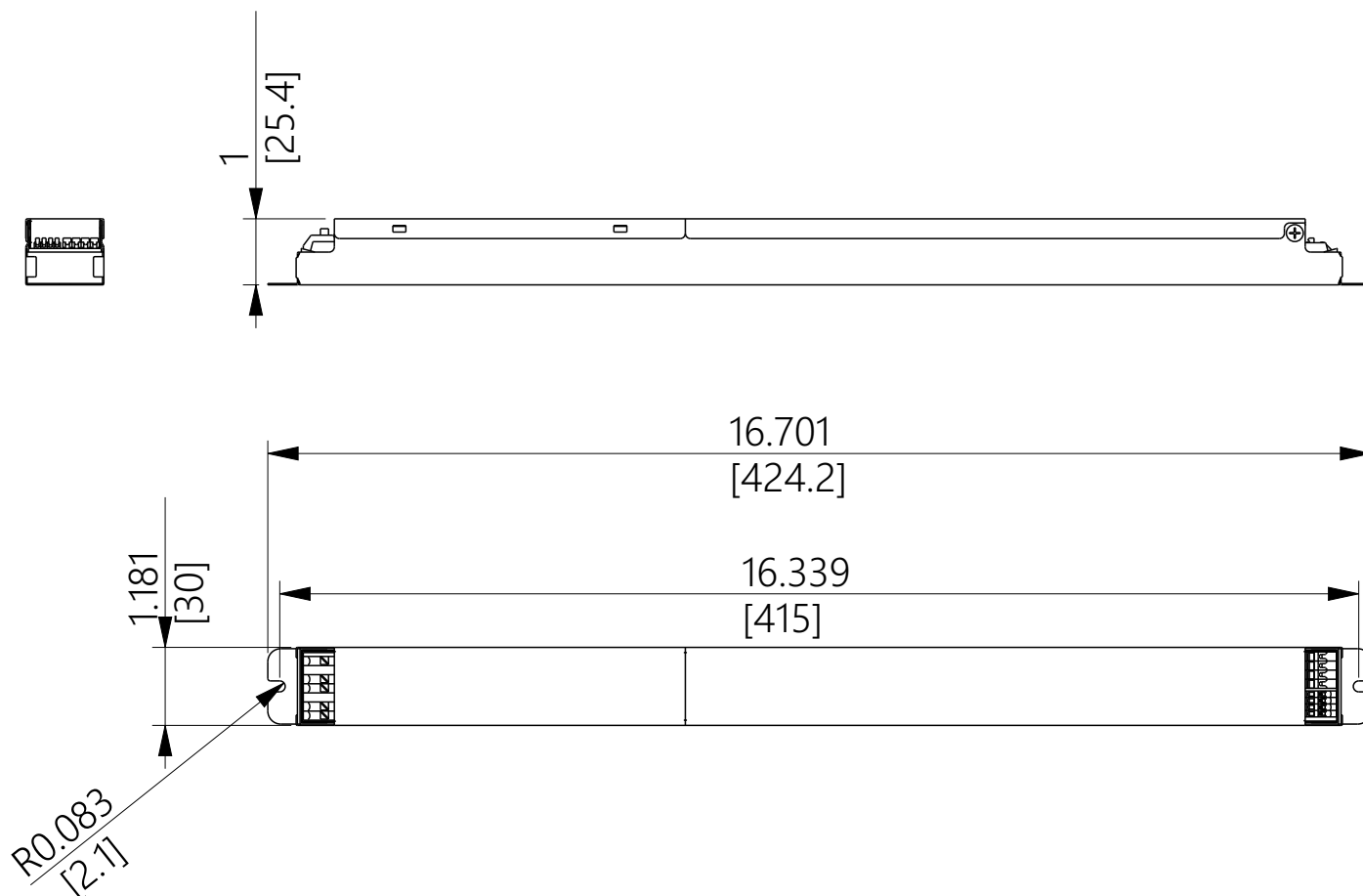
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Mechanical Data

inch
[mm]

Overall Dimensions	
Length	16.7" (424.2mm)
Width	1.181" (30mm)
Height	1.0" (25.4mm)





FHSCP-UNV-10P-S-SD

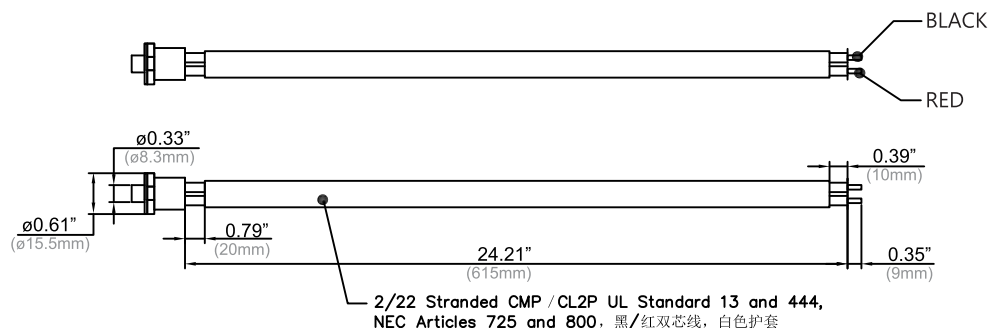


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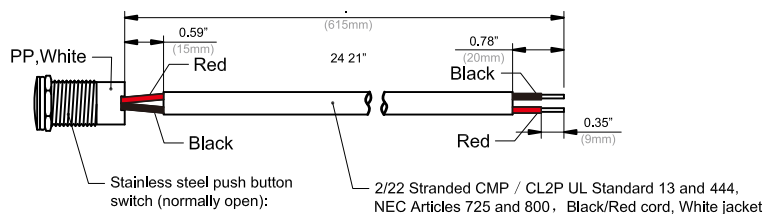


Accessories

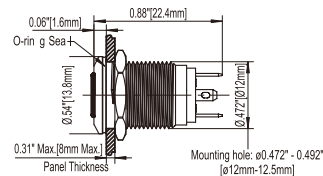
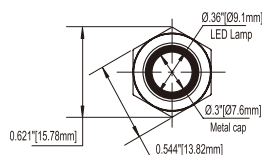
Test switch wire: FHS-TST-BC-S



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



Overall Switch Dimension





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Optional Accessories

Wall Plate: FHSWLPWH

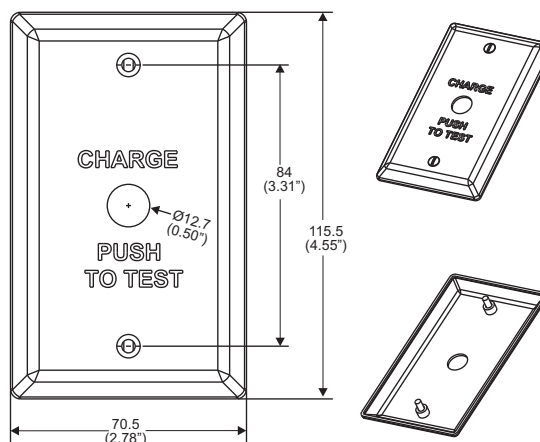


Wall plate and screw color:
white with black lettering

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



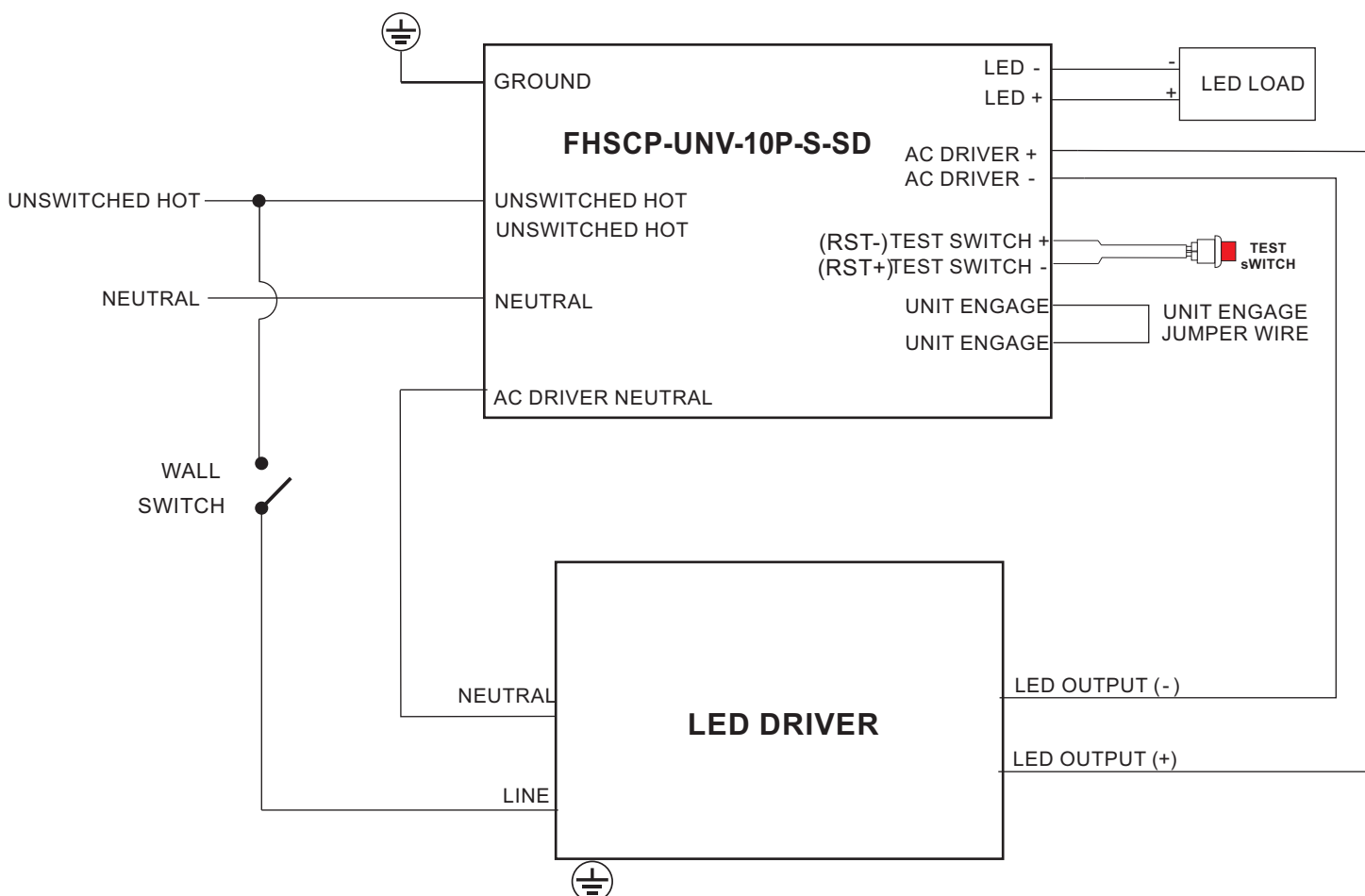
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Wiring Diagram





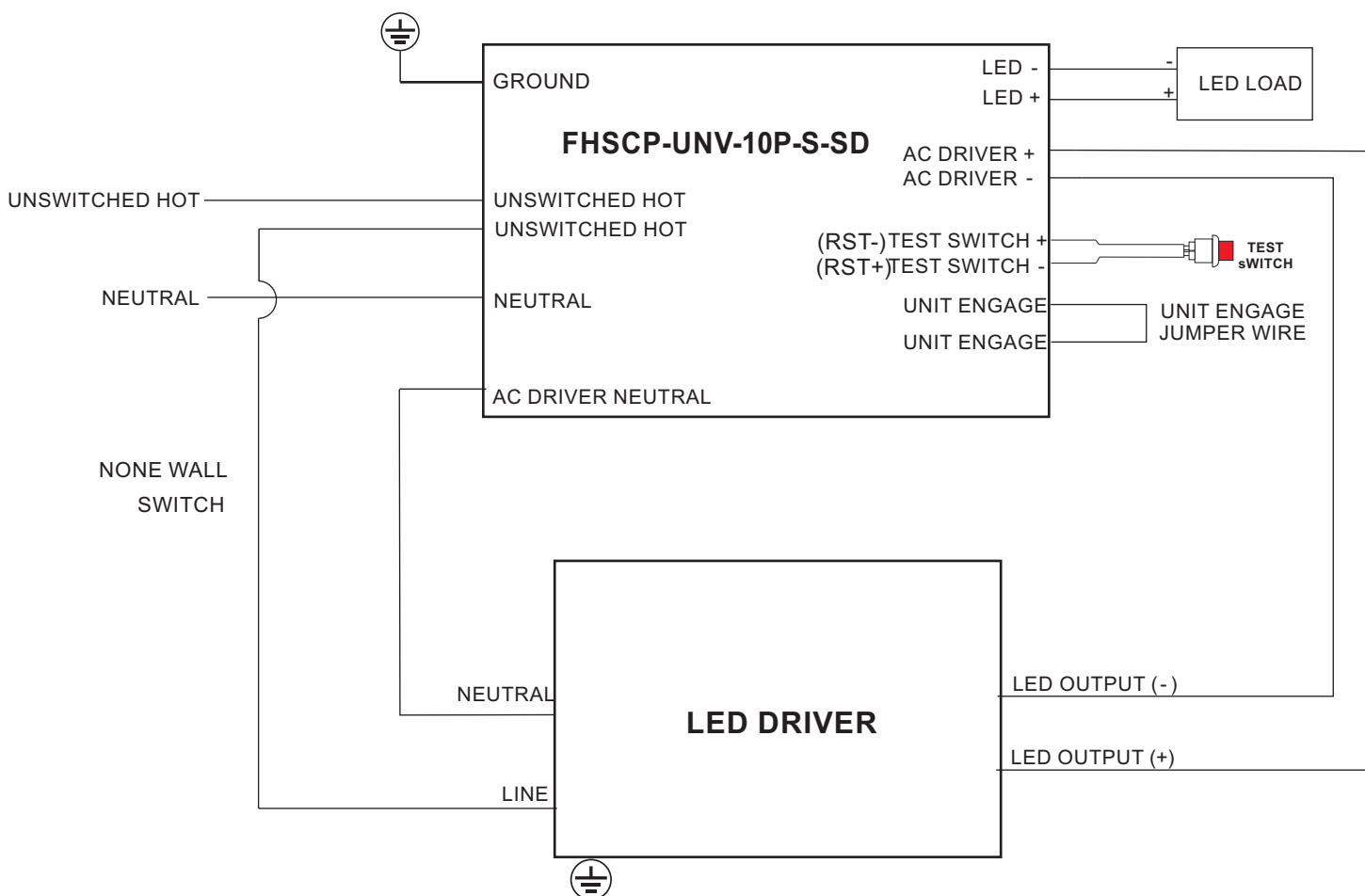
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Wiring Diagram





FHSCP-UNV-10P-S-SD



SELF-DIAGNOSTIC INSTRUCTIONS / OPERATION:

If the self-diagnostic feature is enabled:

The emergency LED driver will conduct a self-check for sixty(60) 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)
● 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-Diagnostic test underway
● Flashing Green, 0.1s on / 3s off	Normal working in EM mode. (Including Self-test/self-diagnostic)
● Flashing Red, 4s on / 4s off	No load or output over voltage protection. (Including Self-test/self-diagnostic)
● Solid Red	Over current protection. (Including Self-test/self-diagnostic)
● Flashing Red, 0.5s on / 3s off	Self-diagnose process current fault or Battery voltage <87.5%.
● Flashing Green, 2s on / 0.5s off	Self-Diagnostic Enabled
● Flashing Green, 0.5s on / 2s off	Self-Diagnostic Disabled

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.

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. 2s ON/0.5s OFF stands for Enabled. 0.5s ON/2s OFF stands for Disabled.

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.



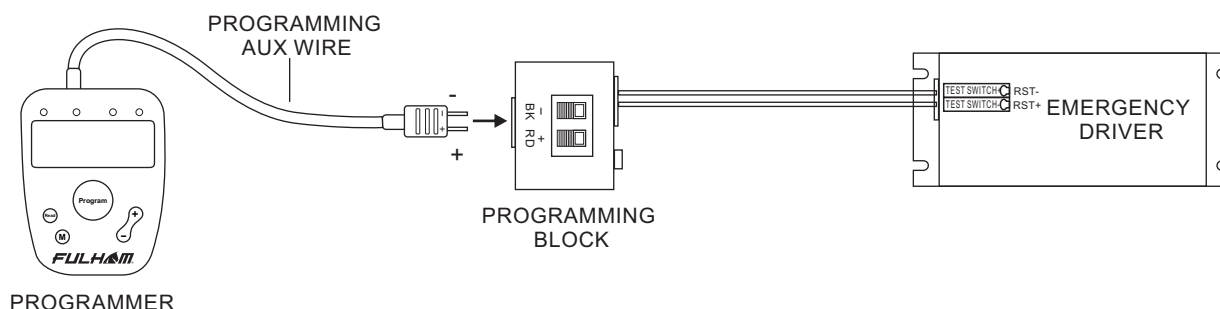
FHSCP-UNV-10P-S-SD



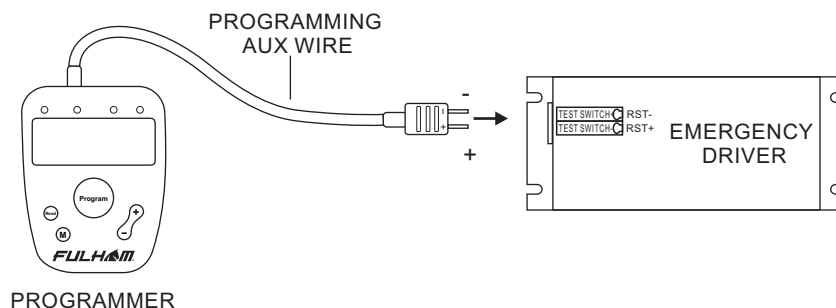
Programming:

The FHSCP-UNV-10P-S-SD is programmed through the Indicator 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 Indicator Port programming harness and programming block that comes with the TPSB-100.

Programming Wire Diagram 1



Programming Wire Diagram 2



Programming Features

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



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>



FHSCP-UNV-10P-S-SD

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BC



Guidelines

Grounding

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

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 10W, 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 remote 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-10P-S-SD



Part Number Matrix

FHS

LED Driver

FHS = Fire Horse EM Driver

CP

Output Type

CP= Constant Power

UNV

Input Voltage

UNV= 120V-277V

10

Power

10= 10W

P

Characteristic

P= Programmable

S

Case Type

S= Stick

SD

Special Features

SD= Self Diagnostic

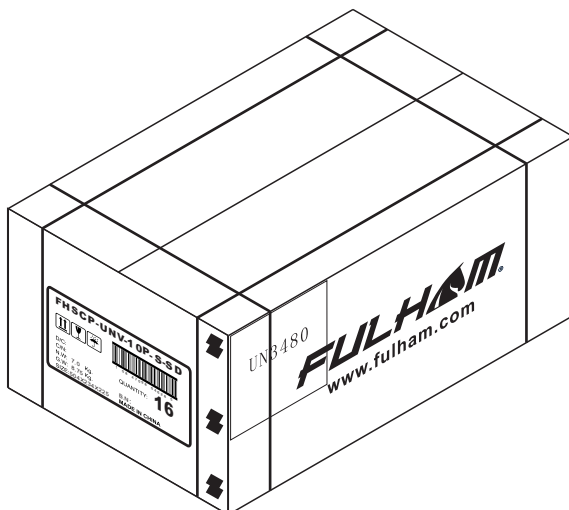
Product Image: LED Driver

FHSCP-UNV-10P-S-SD



Packaging

Master Carton



OUTER DIMENSION		
L	W	H
19.84" (504mm)	9.21" (234mm)	8.86" (225mm)
Net Weight	Gross Weight	QUANTITY
7.0Kg (15.43lbs)	8.75Kg (19.29lbs)	16pcs.