FIREHORSE HOTSPOT FULHAM

FHSCP-UNV3-10P-S-SD

Lithium RoHS COMPLIANT BC c UL us LISTED E477042

Programmable Emergency LED Driver

- Programmable Output –3W - 10W
- UNV3 Input – 120-347VAC Input range allowing for use in Canadian applications as well
- EBD Emergency Battery Disengage
- 15-55VDC - Output Voltage
- Self-diagnostic Standard
- Optional: Brushed Steel Plenum Rated Bi-Color Wet Location Test Switch
- Communication compatible – Compatible with Hexmodal, Litetrace, and Silvair emergency control systems

General Specifications

Input Voltage / Frequency	120-347V~, 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	1Channel
Test Switch	Bi-Color(Class 2)
Program Port	I²C
Input Surge Protection	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 131F°)
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, UL 1310, CSA C22.2 No.141, CSA C22.2 No.223
	CEC, MSDS

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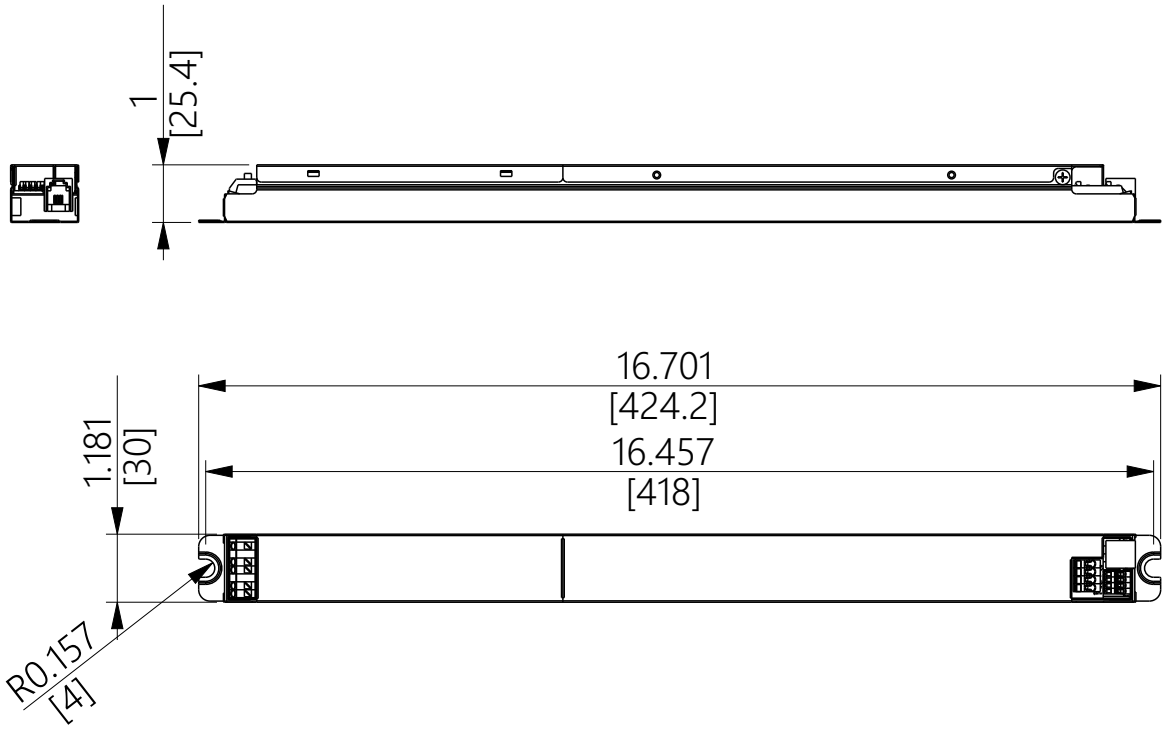
Mechanical Data

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



inch
[mm]

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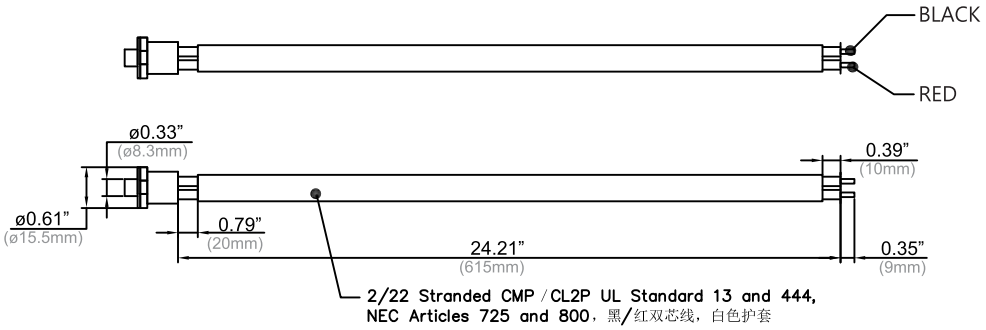
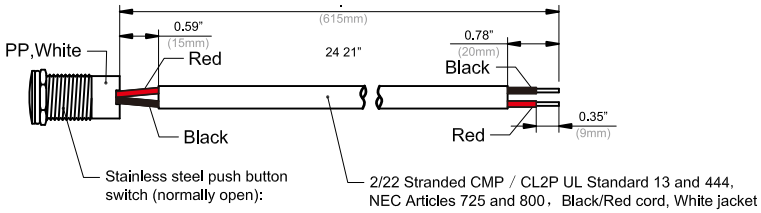
Accessories

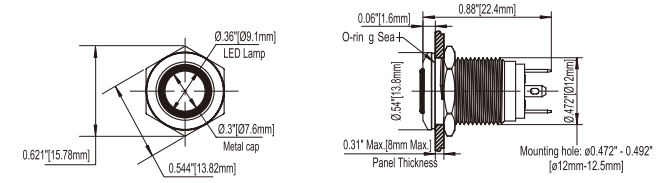
Test switch wire: FHS-TST-BC-S



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



Overall Switch Dimension



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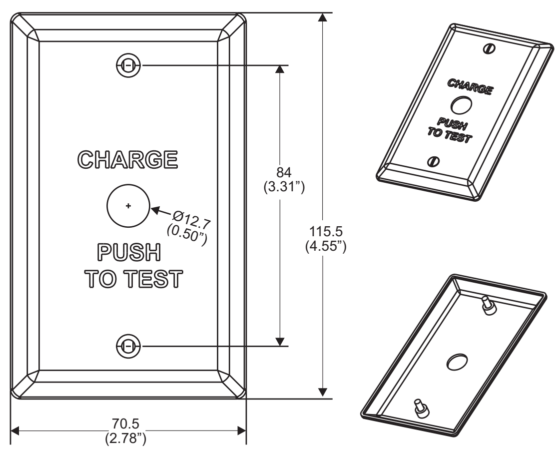
Optional Accessories

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 ½"LG mounting screws

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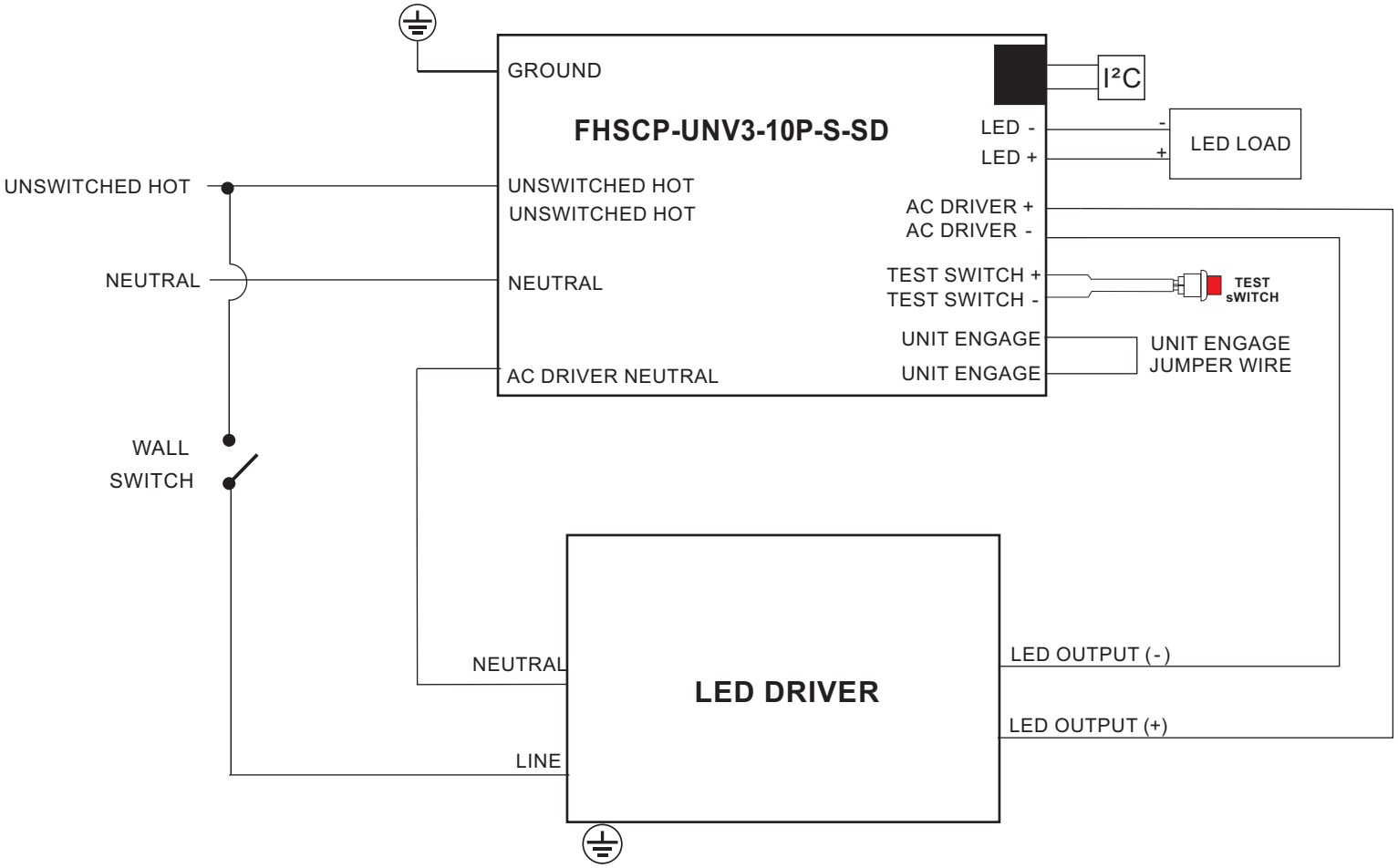
Wiring Diagram

TOP VIEW



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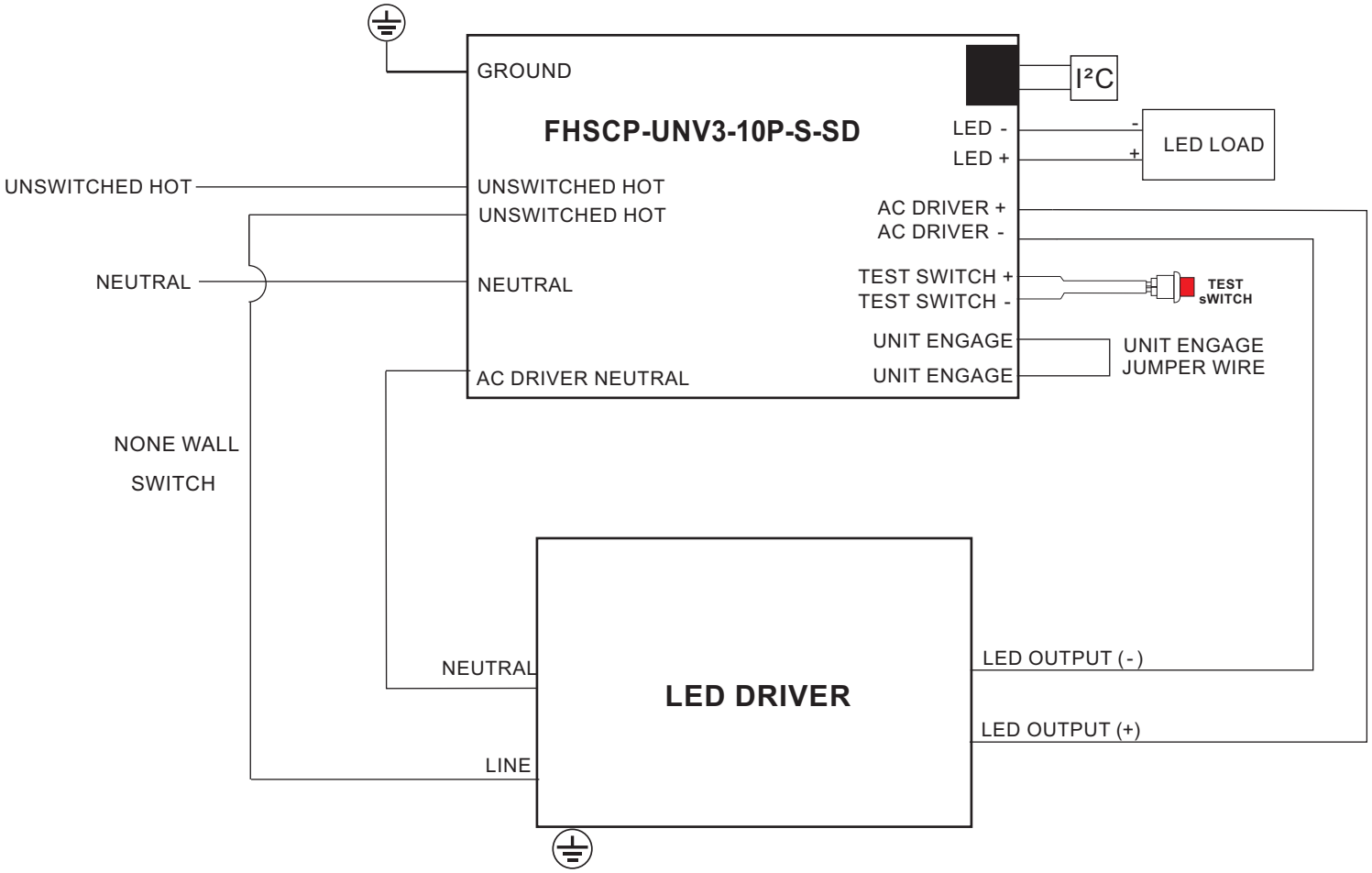
Wiring Diagram

TOP VIEW



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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-Diagonstic Enabled
Flashing Green, 0.5s on / 2s off	Self-Diagonstic 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.

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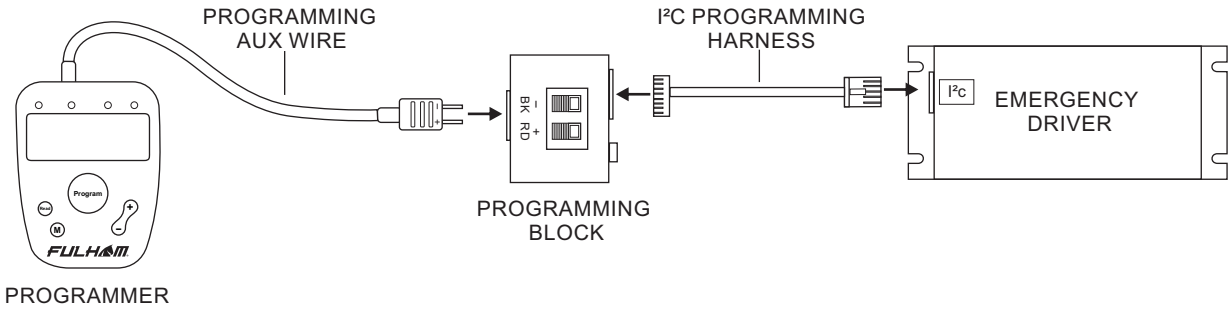
Programming:

The FHSCP-UNV3-10P-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

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-UNV3-10P-S-SD

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

FHSCP-UNV3-10P-S-SD

Part Number Matrix

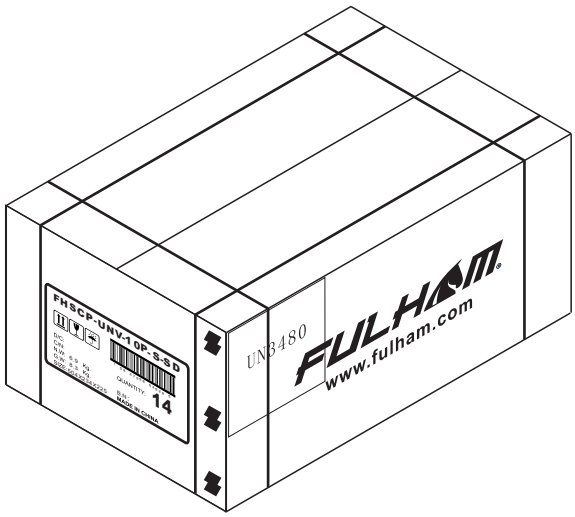
FHS	CP	UNV3	10	P	S	SD
LED Driver	Output Type	Input Voltage	Power	Characteristic	Case Type	Special Features
FHS = Fire Horse EM Driver	CP= Constant Power	UNV3= 120V-347V	10= 10W	P= Programmable	S= Stick	SD= Self Diagnostic

Product Image: LED Driver

FHSCP-UNV3-10P-S-SD

Packaging

Master Carton



OUTER DIMENSION		
L	W	H
19.84" (504mm)	9.21"(234mm)	8.86" (225mm)

Net Weight	Gross Weight	QUANTITY
15.21lbs. (6.9kg.)	18.30lbs. (8.3kg)	14pcs.