

FHSCP-UNV-10P-L-SD

(BC)









SPECIFICATIONS

- **Emergency LED Driver** Universal Voltage: 100-277VAC, 50/60Hz
- Output Current: 0.62A
- Output Power: 10W Max.
- Long Case and Terminal
- IP20
- U-OUT: 60VDC

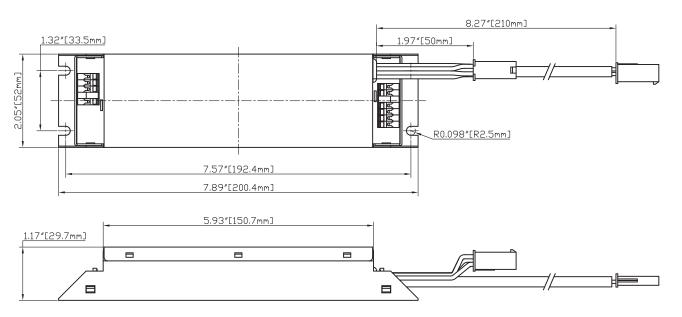
This Driver Will Operate The Following LED Modules: Any LED module designed to accept input voltage range of 16-55VDC and can operate up to current of 0.62A.

Output voltage range of 16-55V=

General Specifications

Input Voltage	100-277V~, 50/60Hz
Input Current	60mA
Input Power	6W
AC LED Driver Input Current (LED Driver Neutral)	3A Max.
Standby Input Power	<0.5W
Driver Type	Constant Power
Output Current	0.62A
Output Voltage Range	16-55V==
Output Power	10W Max. (1-10W @ 3000mAh Battery, 1-6W @ 1800mAh Battery, 1-5W @ 1500mAh Battery)
AC LED Driver Output(LED Driver Output+)	3A Max., 55V Max.
Number of Output Channels	1 Channel
RFI/EMI	FCC Part 15A Non-Consumer
Output Type	LED Class 2
Battery Type	NiCd 9.6VDC / LiFePO4 9.6VDC
Battery Capacity Available	3000mAh, 1800mAh, 1500mAh
Battery Recharge Time	24 Hours@NiCd / 12 Hours@LiFePO4(Refer To Battery chart)
Battery Discharge Time	90 Minutes Min.
ta	NiCd 0°C to 55°C (32°F to 131°F) / LiFePo4 10°C to 55°C (50°F to 131°F)
Sound Rating	A
Input Surge Protection	Line-Neutral 2kV, Line & Neutral-Ground 2kV
	Over / Under Voltage Protection
Protections	Output Open Circuit Protection
	Overload Protection
Service Life	50,000 hours
Approvals / Class	RoHS, IP20, CEC Title 20 cUL LISTED

Mechanical Data



Tolerance=±0.02"



FHSCP-UNV-10P-L-SD NICED SPECIFICATIONS









GENERAL INSTALLATION GUIDELINES FOR LED EMERGENCY DRIVER

IMPORTANT SAFE PRACTICES

When using electrical equipment and this lighting device basic safety precaution should be followed at all times including but not limited to the following:

PLEASE READ CAREFULLY AND FOLLOW ALL INSTRUCTIONS FOR YOUR OWN SAFETY

IMPORTANT: Do not connect battery until fixture is installed.

IMPORTANT: An un-switched AC power source of 100VAC to 277VAC is required.

This device is designed for use in fixtures listed for dry and damp locations.

CAUTION: Make sure all electrical connections conform to the National Electrical Code and all applicable local regulations.

CAUTION: Do not let power supply cords touch hot surfaces.

CAUTION: Do not mount near gas or electric heaters.

CAUTION: Do not use outdoors.

CAUTION: Battery is rechargeable NiCd or LiFePO4 type and must be recycled or disposed of properly. Do not use this emergency driver with accessory equipment other than recommended by manufacturer; failure to follow this may cause an unsafe condition. Servicing should only be performed by qualified service personnel.

·Do not use this emergency driver for other than intended use.

Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.

IMPORTANT: The output EM power will be the maximum of connected battery unless programmed to a lesser value. EM output power will not exceed the battery rating.

IMPORTANT: Indicator (LED light) illuminated indicates battery in charge mode when AC power is applied. It is recommended and required by applicable code to test emergency function to ensure proper operation of the system; push the test switch for thirty (30) seconds every 30 days to ensure the emergency driver is functioning as LED light source illuminated. Conduct a ninety minute (90) discharge test one time (1) per year; LED light source should be illuminated for a minimum of ninety minutes (90).

ASSEMBLY and FIELD INSTALLATION WIRING: WARNING: AC power must be off before proceeding with assembly or installation of emergency driver.

TESTING SYSTEM: The emergency battery requires a charge minimum of one (1) hour before testing the circuit. A full charge requires twelve (12) or twenty four (24) hours (Refer to battery chart).

Fulham Head Quarters: Fulham Co., Inc 12705 South Van Ness Ave. Hawthorne, CA 90250

Manufacturer: North China

Fulham Electronic Co. Ltd.

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SAVE THESE INSTRUCTIONS



FHSCP-UNV-10P-L-SD NICH/LF6P04 **SPECIFICATIONS**

(BC)

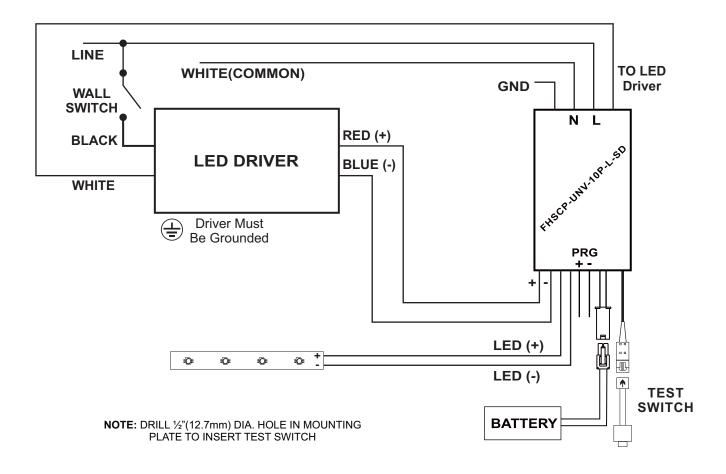






Wiring Diagrams 1







FHSCP-UNV-10P-L-SD NICHLIFEPO4 SPECIFICATIONS (BC)

NiCd/LiFePO4

BC EL-1

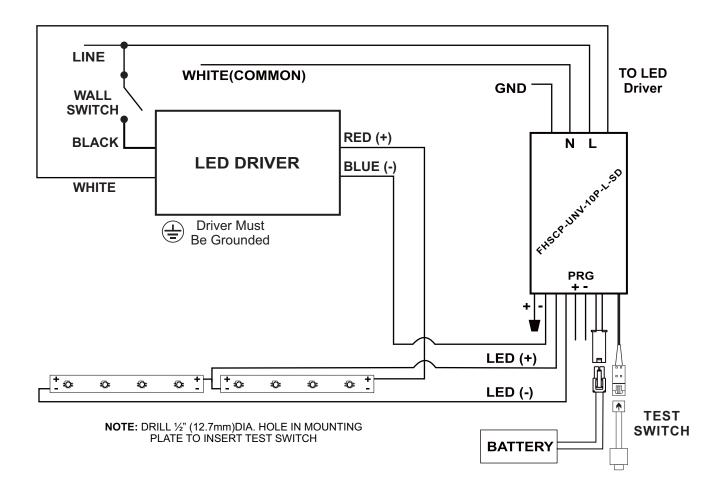






Wiring Diagrams 2







FHSCP-UNV-10P-L-SD NICIDILITY **SPECIFICATIONS**

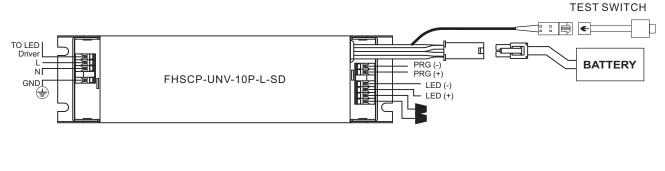


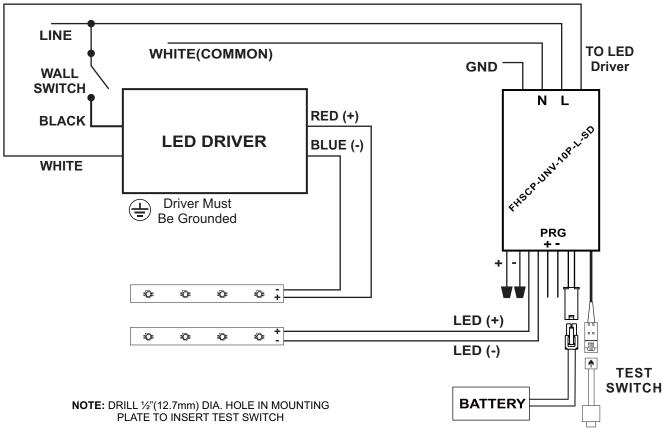




Wiring Diagrams 3







Battery Chart

Fulham Model No.	Chemistry	RoHS	Pack Capacity	Max Load for 90 min.	Battery Voltage	Recharge Time
FHSBATL3-1.5-SD	LiFePO4	Compliant	1500mAh	5W	9.6V	12Hrs
FHSBATL3-3-SD	LiFePO4	Compliant	3000mAh	10W	9.6V	12Hrs
FHSBATL96-SD	LiFePO4	Compliant	1800mAh	6W	9.6V	12Hrs
FHSBATL6-1.5L-SD *	LiFePO4	Compliant	3000mAh	10W	9.6V	12Hrs
FHSBATT8-C3L-SD	NiCd	Exempt	3000mAh	10W	9.6V	24Hrs

CAUTION: Replace battery only with corresponding part number.

^{*} Note: These batteries do not include mounting means, separate mounting brackets are available.



FHSCP-UNV-10P-L-SD NICH/LIFEPO4



(BC)

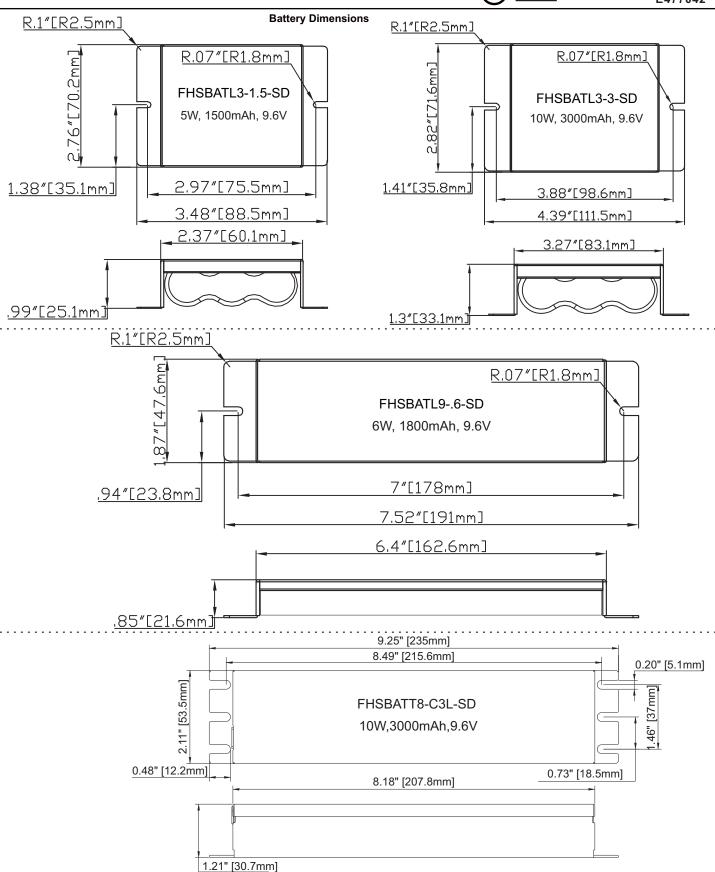


IP20 RoHS COMPLIANT



LISTED

SPECIFICATIONS





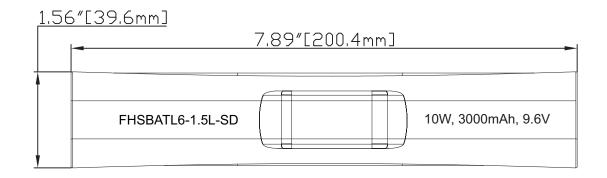
FHSCP-UNV-10P-L-SD NICH/LIFEPO4 **SPECIFICATIONS**

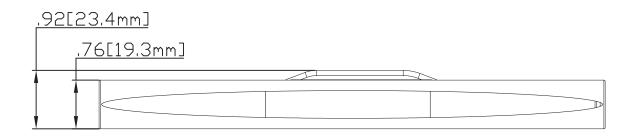
EL-T IP20 ROHS COMPLIANT (BC)



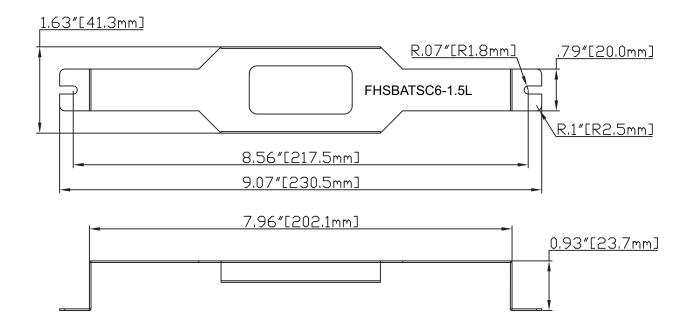


Battery Dimensions





Mounting Bracket Dimensions (Optional)





FHSCP-UNV-10P-L-SD SPECIFICATIONS

NiCd/LiFePO4









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, 2s on/2s off	Self-diagnostic test underway.		
├ Fast Flashing Red, 0.1s on/0.1s off	Abnormal driver performance, replace driver.		
- None. Both LEDs OFF	Normal working in EM mode.		
- Very Slow Flashing Red, 1s on/7s off	OTP or other internal protections triggered.		

^{*}Notes: OTP = Over Temperature Protection; ensure max temperature ratings are not exceeded.

TEST SWITCH OPERATIONS:

- 1. EM Test: Press and hold test button to enter EM mode for testing, in all normal AC powered situations including low power standby modes.
- 2. Manual Self-Diagnostic: quickly press the test button three times within three 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 five seconds.
- 3. 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 appropriate color for the Enable/Disable status. A flashing of 2.5s ON/0.5s OFF means "Enabled", while a flashing of 0.5s ON/2.5s off means "Disabled". Once Enable/Disable is set the status color on the test button will remain the same throughout normal operation (refer to Indicator Status Table).

Programming:

Unless otherwise programmed the output will self-program to the maximum rating of the battery. This driver can be programmed using Fulham SmartSet TPSB-100(E). Programming features include the following:

- * Output EM power 1W to 10W
- * Enable / Disable Self-Diagnostic