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LiFePO4

LED Driver with integrated emergency backup
 Universal Voltage: 120-277V ~, 50/60Hz
 Output Wattage: 40W Max.
 Output Current: 250-1400mA

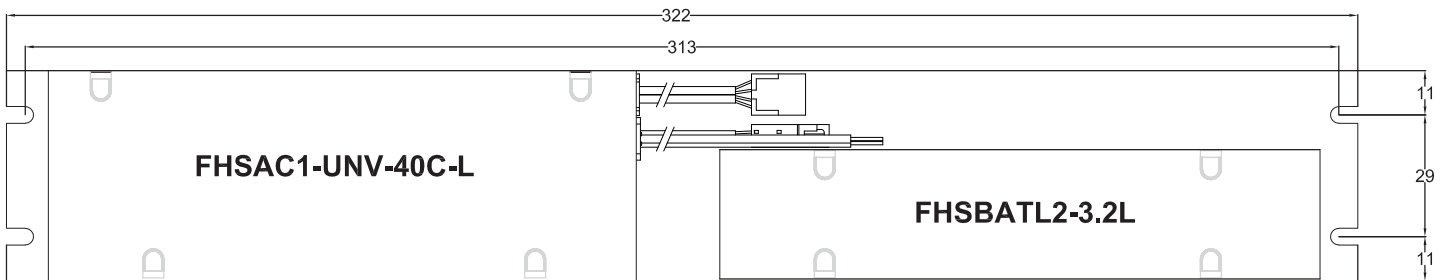
Output voltage range of 11-55V=
 Compact case with side leads

This Driver Will Operate The Following LED Modules: Any LED module designed to accept input voltage range of 11-55VDC and can operate to current of 250-1400mA.

General Specifications

Input Voltage	120-277VAC, 50/60Hz
Input Current	0.43A @ 120VAC
Input Power	54W
Power Factor	>0.9
THD	<20%
Standby Input Power	<0.85W
Driver Type	Constant Current
Output Current	250-1400mA [TPSB 100 (Program Box) , Figure 1] ; Record New Setting On 1"x0.5" Lable
Output Voltage Range	11-28VDC (250-1400mA) , 11-40VDC (250-1000mA) , 11-55VDC (250-730mA)
Output Power	40W Max. (Figure 1) 5W or 10W @ Emergency Mode (Min. 180 Minutes @ 5W , Min. 90Minutes @ 10W)
Number of Output Channels	1 Channel
Dimming Controller Type / Dimming Range	0-10V / 100% - 1%,0% (Figure 2) / Custom Dimming Curve / Dimmed To Off
RFI/EMI	FCC Part 15A Non-Consumer
Output Type	LED Class 2
Battery Type	LiFePO4 6.4VDC (Part# FHSBATL2-3.2L)
Battery Capacity Available	3200mAh
Battery Recharge Time	12 Hours
Max. Case Temperature	85°C(185°F)
Ambient Operating Temperature Range	0°C to 48°C(32°F to 118.4°F)
Sound Rating	A
Input Surge Protection	Line-Neutral 3kV , Line & Neutral-Gound 6kV , Ring Wave ANSI/IEEE62.41
Protections	Input Current Protection Output Open Circuit Protection Overload Protection Over Temperature Protection Output Short Circuit Protection Output To Ground Short Circuit Protection
Service Life	50,000 hours
Approvals / Class	Dry or Damp Locations

MECHANICAL DATA



All dimensions are in mm. Case Tolerance = ± 0.2mm

Fulham extends a limited warranty to the original purchaser or first user for a period of 5 years @ Tc 63°C from the date of manufacture when properly installed and operated under normal conditions of use. The usage of appropriate series connected Surge Protection Device (SPD) is required in high risk applications. For complete terms and conditions, please refer to the Warranty Center at www.fulham.com. Specifications subject to change without notice.



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Figure1

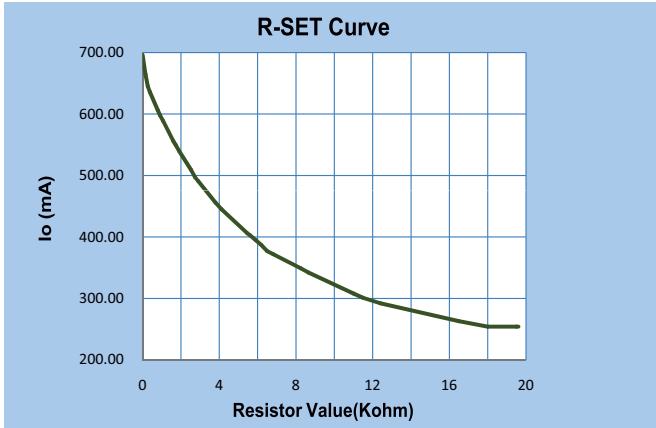


Figure2

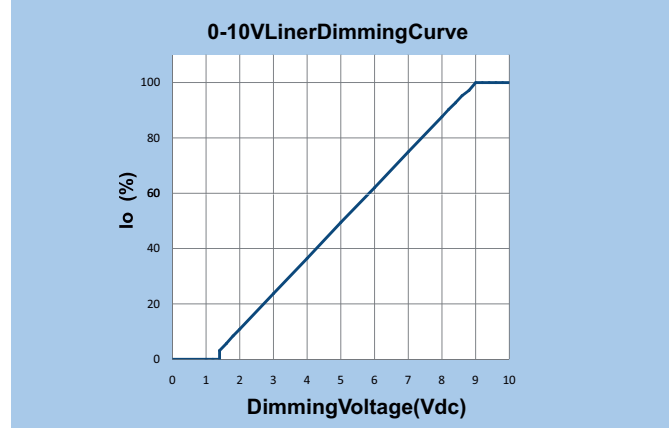


Figure3

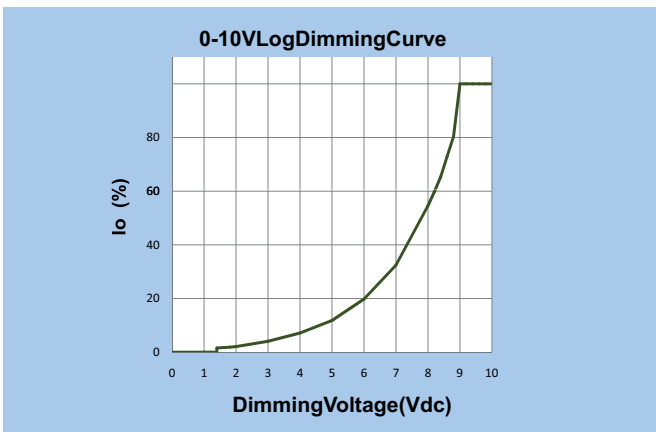


Figure4

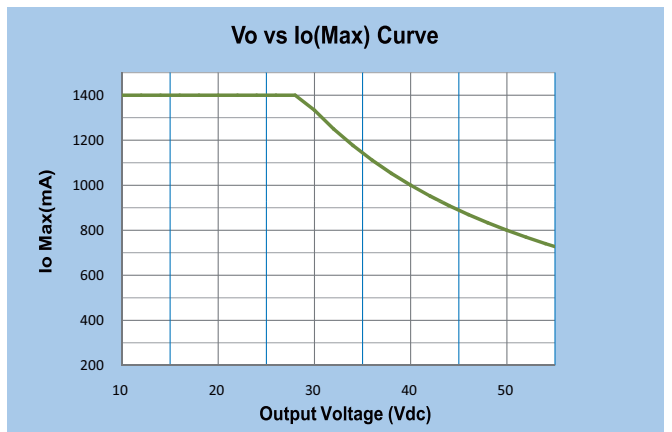


Figure5

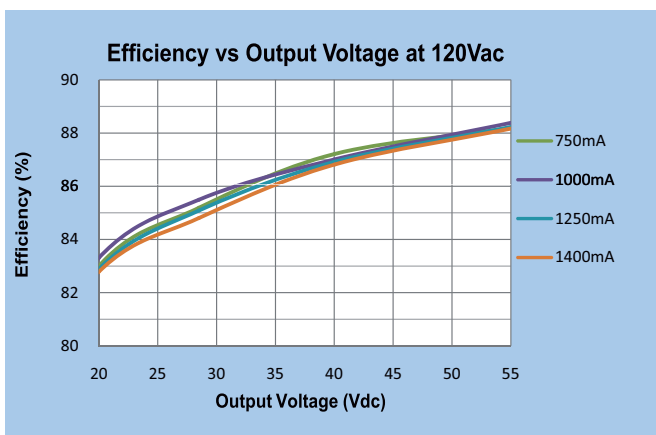
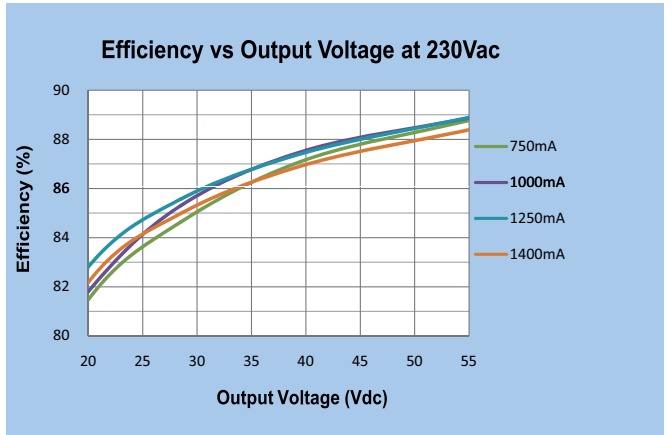


Figure6



Fulham extends a limited warranty to the original purchaser or first user for a period of **5 years@Tc 63°C** from the date of manufacture when properly installed and operated under normal conditions of use. The usage of appropriate series connected Surge Protection Device (SPD) is required in high risk applications. For complete terms and conditions, please refer to the Warranty Center at www.fulham.com. Specifications subject to change without notice.



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Figure7

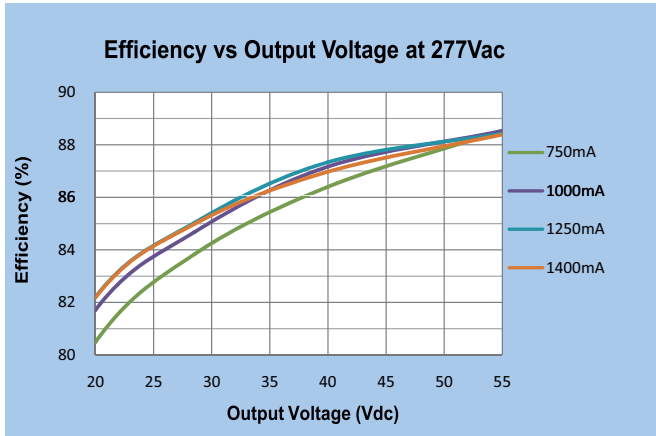


Figure8

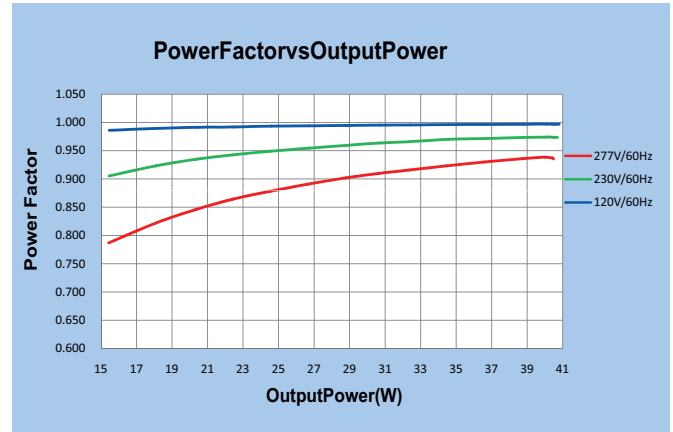


Figure9

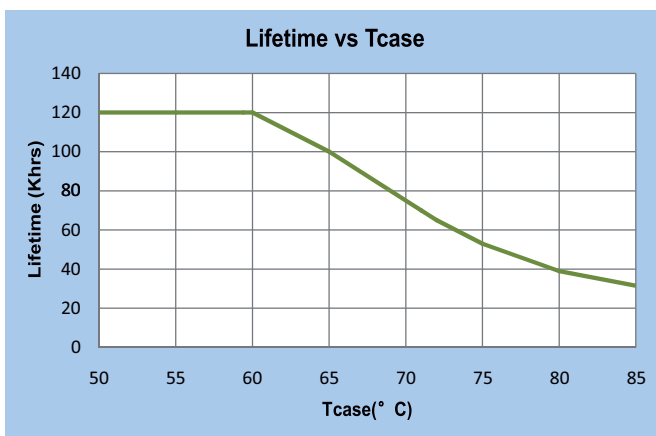


Figure10

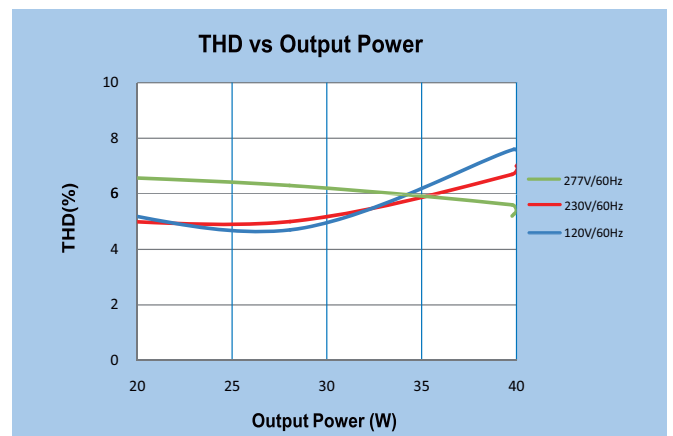


Figure11

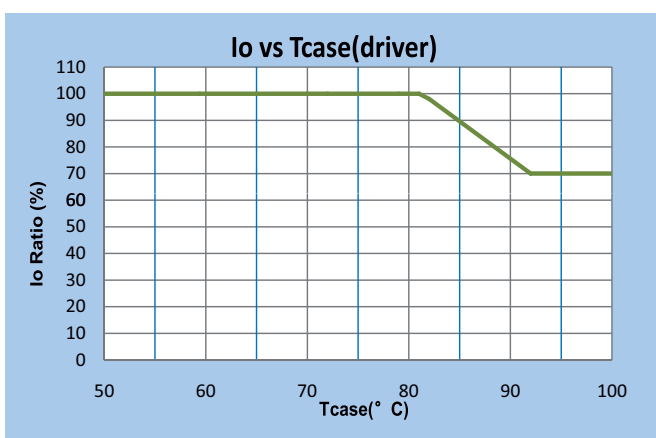
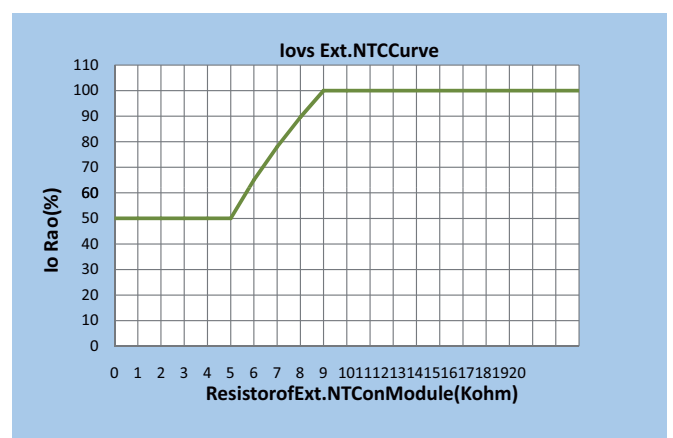


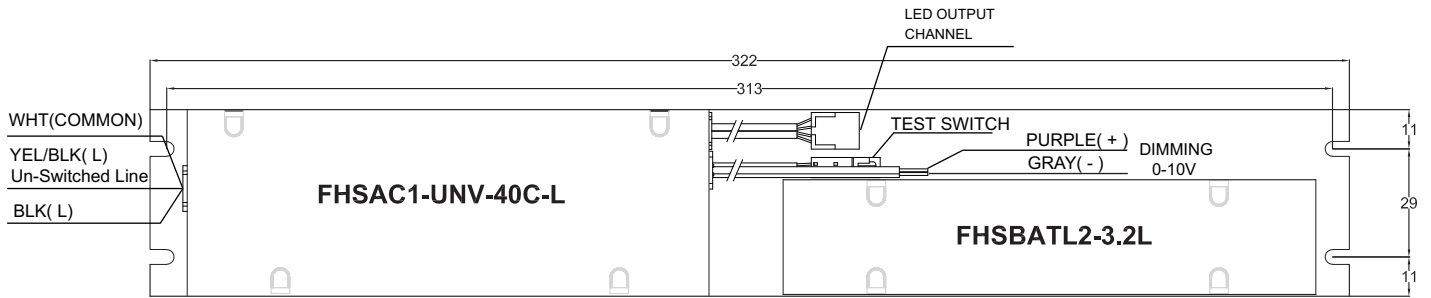
Figure12



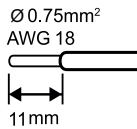
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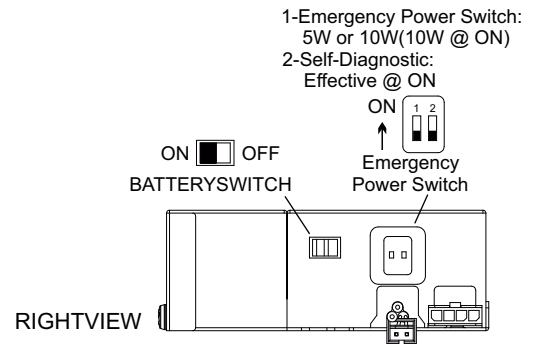


Case	Dimensions
Length	6.32"[160.5mm]
Width	3.05"[77.6mm]
Height	1.14"[29mm]



INPUTSIDE	LENGTH
BLACK	12"[304.8mm]
WHITE	12"[304.8mm]
YEL/BLK	16"[406.4mm]

OUTPUTSIDE	LENGTH
LEDOUTPUT	8"[203.2mm]
TESTLEAD	8"[203.2mm]
PURPLE	12"[304.8mm]
GRAY	12"[304.8mm]



- NOTE:** 1.The driver must be grounded.
2.Once assembly, installation or servicing is complete, set the BATTERY SWITCH to the ON position.

All dimensions are in mm.Case Tolerance= ± 2mm

SELF DIAGNOSTIC INSTRUCTIONS / OPERATION:

If Dip Switch 2 (Self-Diagnostic Switch) is set to the OFF position:
The self diagnostic feature is disable.Afunctionality test shall be manually conducted every thirty(30) days to ensure the emergency LED light source illuminates as intended.Afull discharge test shall be conducted once a year; the LED light source shall illuminate for a minimum of ninety (90) minutes for the 10W load (Dip Switch 1 is set to the ON position) or one hundred eighty (180) minutes for 5W load (Dip Switch 1 is set to the OFF position).

If Dip Switch 2 (Self-Diagnostic Switch) is set to the ON position:
The self diagnostic feature is enable .The emergency LED driver will conduct a self check for thirty (30) seconds every thirty (30) days; and ninety (90) minutes or one hundred eighty (180) minutes self check every 12 months.After every self check the LED indicator light will indicate a status signal.Asingle self-diagnostic test can be activated by pressing the test switch three (3) times. Refer to Indicators StatusTable for details.

When user toggle the Dip Switch, the LED indicator on Switch button wouldflash 3 times, 2.5S ON/0.5S OFF for Enabled, while 0.5S ON/2.5S OFF for Disabled.



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TEST SWITCH INDICATOR STATUS:

LEDIndicatorsStatus	EMDriverStatus/Mode
● SolidGreen	SystemOK/ACOK(Self-diagnosticEnabledorDisabled)
● SlowFlashingRed,4son/1soff	BatteryPACKnotfound,checkBATpack.
● FlashingRed,1son/1soff	BatteryPACKFailure,replaceBATpack.
● FlashingGreen,1son/1soff	Self-diagnosticprocessongoing.
● FastFlashingRed,0.1son/0.1soff	Chargingcircuitabnormal/chagingprocessfailed.
● VerySlowFlashingRed,4son/4soff	PCBOTP/Dischargingoverheat.
● None.BothLEDsOFF	NormalworkinginEMmode.
● Green/Redalternativeflashing,1sgreen/1sred.	WhenLEDoutputisOVP/NOLOAD inAC Mode.

1. EMTest: Press and hold test button (>1s)to enter EM mode for testing in normalAC powered .
2. Manual Self-Diagnostic(When Self-Diagnostic Enabled - Dip Switch 1 set to the ON position):After charging twelve (12) hours or battery fully charged, quickly press the test button three(3) times within three(3) 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 ten(10) seconds.

Programming:

This driver can be programmed using Fulham SmartSetTPSB-100(E). Programming features include the following:

- Output Current : 250-1400mA
- Dimming Curve
- LED NTCThermal Protection





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Important Safety Instructions

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:** An un-switched AC power source of 120VAC to 277VAC is required for the yellow/black and white leads.
- **IMPORTANT:** A switched or un-switched AC power source of 120VAC to 277VAC is acceptable for the black lead only.
- 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

CAUTION : Do not mount near gas or electric heaters.

CAUTION: 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.

CAUTION: Do not use this emergency driver for other than intended use.

CAUTION: Battery is rechargeable LiFePO4 type and must be recycled or disposed of properly.

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

ASSEMBLY and FIELD INSTALLATION WIRING: WARNING: AC power must be off before proceeding with assembly, installation or servicing of emergency driver. Additionally ensure that the battery is disconnected (Battery Switch set to OFF).

TESTING SYSTEM: The emergency battery requires a minimum charge time of one (1) hour before testing the circuit. A minimum of twelve (12) hours is required for a full charge.

RATED EMERGENCY OPERATION: Ninety (90) minutes for the 10W load or one hundred eighty (180) minutes for the 5W load. The 10W or 5W option is determined by the position of Dip Switch 1 (Emergency Power Selection Switch).