

#### **DESCRIPTION**

LED Emergency Back-Up Driver Kit | 5W Output | 500 Lumens 120-277V Input | CEC T20 Compliant

DRIVER TYPE: Constant Power LED Emergency Back-Up Driver Kit

MAX. OUTPUT POWER: 5W, 500 lumens INPUT VOLTAGE: 120-277Vac ±10%

**NUMBER OF OUTPUTS: One** 

SAFETY STANDARD: UL 924, Complies with CEC Title 20 Efficiency Standards

LOCATION: IP20 design for dry and damp location

**WARRANTY:** 5 Years















### **ELECTRICAL SPECIFICATIONS**

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Input voltage range	120-277Vac ± 10%
Frequency	50/60Hz
Power factor	>0.5 under 120–277Vac input
Inrush current	7A @ 230V
Max input current	50mA @ 120V, 35mA @ 240V, and 30mA @ 277V
THD	<200% under 120–277Vac input
Output voltage	20–60Vdc Class 2 compliant. <i>Remarks:</i> the output power is valid for output voltage ≤58V; above that power will drop
Output current	250mA @ 20Vdc, 86mA @ 58Vdc
Output power	5W (constant), 500 lumens
Turn-on Delay Time	<1s
Overshoot	<10%
Ripple & Noise (pk-pk)	<10%
Withstand voltage	Input to output, 2800Vdc, 2mA
Leakage current	Maximum 0.5mA at 277Vac, 60Hz input
Protection	Over voltage protection: Hiccup mode. Protection will trigger when load voltage exceeds specified output voltage and will auto-recover after the fault mode is removed.  Over current protection: Hiccup mode. Protection will trigger when load current exceeds specified output current and will auto-recover after the fault mode is removed.  Short circuit protection: Hiccup mode. Protection will trigger when short circuit occurs and will auto-recover after the fault mode is removed.  Over temperature protection: Protection will trigger when driver overheats and auto-recover when cooled down.
<b>Emergency Operation</b>	90 minutes
Battery	High-temperature, maintenance-free, LiFePO4 battery, 9.6Vdc, 3 cell
Recharge Time	24 hours
<b>Battery Charging Current</b>	307mA

### **ENVIRONMENTAL SPECIFICATIONS**

Operating temperature	0°C/32°F to 55°C/131°F
Storage temperature	-20°C/-4°F to 55°C/131°F
Humidity	5% to 95%
MTBF	284,000 hrs at 40°C/104°F ambient (~70°C/158°F case temp)
Life rating	80,000 hrs at 120Vac input, 100% load and 60°C/140°F case temp
Max case temperature	75°C/167°F for LED driver
Max ambient temperature	55°C/131°F for battery

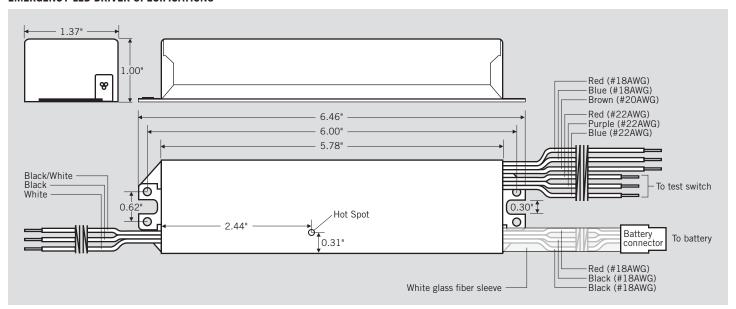
### SAFETY AND EMC COMPLIANCE

UL/cUL	UL 924	
FCC, 47CFR Part 15	ANSI C63.4:2009 Class B (consumer limit)	
EN61000-3-2	Harmonic current emissions Class C	



### **DIMENSIONS AND WIRING SPECIFICATIONS**

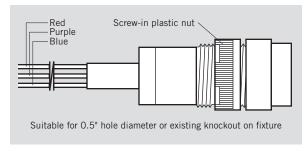
#### **EMERGENCY LED DRIVER SPECIFICATIONS**



#### **WIRE SPECIFICATIONS**

Input		Black, White, Black/White	12", UL1316 #18AWG	
Output	To LED module	Red, Blue	24", UL1316 #18AWG	
	To LED driver	Brown	24", UL1015 #20AWG	
	To battery connector	Red, Black	24", UL1015 #18AWG	
	To test switch	Red, Blue, Purple	24", UL1430 #22AWG	

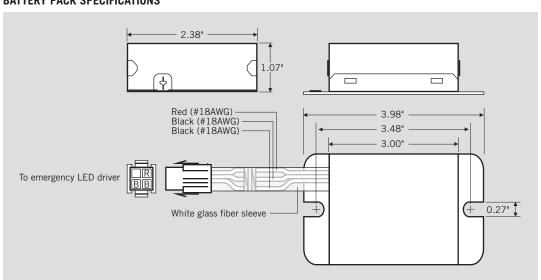
#### **TEST SWITCH (3-WIRE) SPECIFICATIONS**



#### **LED DRIVER DIMENSIONS**

Length	6.46" (164.0mm)
Width	1.37" (34.7mm)
Height	1.00" (25.4mm)
Mounting	6.00" (152.4mm)

## **BATTERY PACK SPECIFICATIONS**

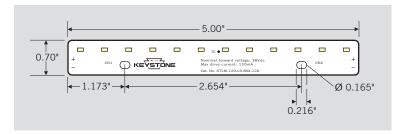


#### **BATTERY PACK DIMENSIONS**

Length	3.98" (101.0mm)
Width	2.38" (60.4mm)
Height	1.07" (27.2mm)
Mounting	3.48" (88.4mm)

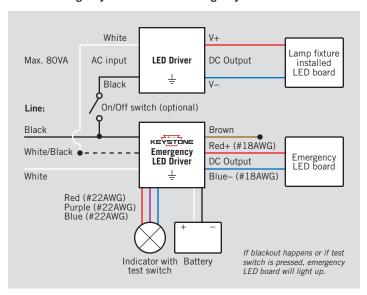


#### LED MODULE SPECIFICATIONS

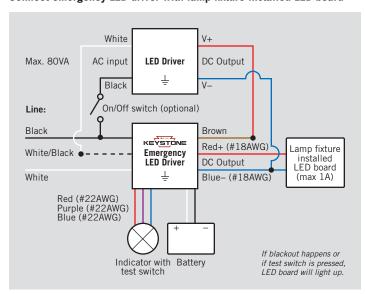


#### **WIRING DIAGRAMS**

#### Connect emergency LED driver with emergency LED board



### Connect emergency LED driver with lamp fixture installed LED board



#### LIFETIME VS CASE TEMPERATURE POWER DERATING VS CASE TEMPERATURE Lifetime (kHrs) Load% Power derating Case temperature (°F) Case temperature (°F)

- Notes:
- 1. To maintain good battery lifespan during storage, recharging emergency LED driver annually is recommended.
- 2. For operation, wiring, and installation please refer to installation instruction.



#### **ORDERING INFORMATION**

ORDER CODE	DESCRIPTION	PACK QTY.	ITEM STATUS
KT-EMRG-LED-5C-500-K1-IP	Constant Power LED Emergency Back-Up Driver Kit, CEC Compliant	12	Active

### **CATALOG NUMBER BREAKDOWN**



- 1 Keystone Technologies
- 2 Emergency Back-Up
- 3 LED Driver
- 4 Nominal Wattage
- **5** CEC Compliant
- 6 Nominal Lumen Output
- 7 Kit Version with Module
- 8 Packaging Style