

# KT-EMRG-LED-5C-500

## LED EMERGENCY BACK-UP DRIVER

### DESCRIPTION

LED Emergency Back-Up Driver | 5W Output | 120–277V  
 Input | CEC T20 Compliant | 2-Piece Design

<b>DRIVER TYPE:</b> LED Emergency Back-Up Driver
<b>MAX. OUTPUT POWER:</b> 5W
<b>INPUT VOLTAGE:</b> 120–277Vac $\pm$ 10%
<b>NUMBER OF OUTPUTS:</b> One
<b>SAFETY STANDARD:</b> UL 924
<b>LOCATION:</b> IP20 design for dry and damp location
<b>WARRANTY:</b> 5 Years
<b>PASS-THROUGH CURRENT:</b> 3A max



### ELECTRICAL SPECIFICATIONS

Input voltage range	120~277Vac $\pm$ 10%
Frequency	50/60Hz
Power factor	>0.9 under 120~277Vac input
Inrush current	TBD
Max input current	50mA @120V, 35mA @240V, and 30mA @277V
THD	<20% under 120~277Vac input
Output voltage	20–60Vdc Class 2 compliant Remarks: the output power is valid for output voltage $\leq$ 58V; above that power will drop
Output current	250mA @ 20Vdc, 86mA @ 58Vdc
Output power	5W (constant)
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	<p><b>Over voltage protection:</b> Hiccup mode. Protection will trigger when load voltage exceeds specified output voltage and will auto recover after the fault mode is removed.</p> <p><b>Over current protection:</b> Hiccup mode. Protection will trigger when load current exceeds specified output current and will auto recover after the fault mode is removed.</p> <p><b>Short circuit protection:</b> Hiccup mode. Protection will trigger when short circuit and will auto recover after the fault mode is removed.</p> <p><b>Over temperature protection:</b> Protection will trigger when driver overheats and auto-recovery when cooled down.</p>
Emergency Operation	90 minutes
Battery	High-temperature, maintenance-free, LiFePO4 battery, 9.6Vdc, 3 cell
Recharge Time	24 hours
Battery Charging Current	307mA



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### ENVIRONMENTAL SPECIFICATIONS

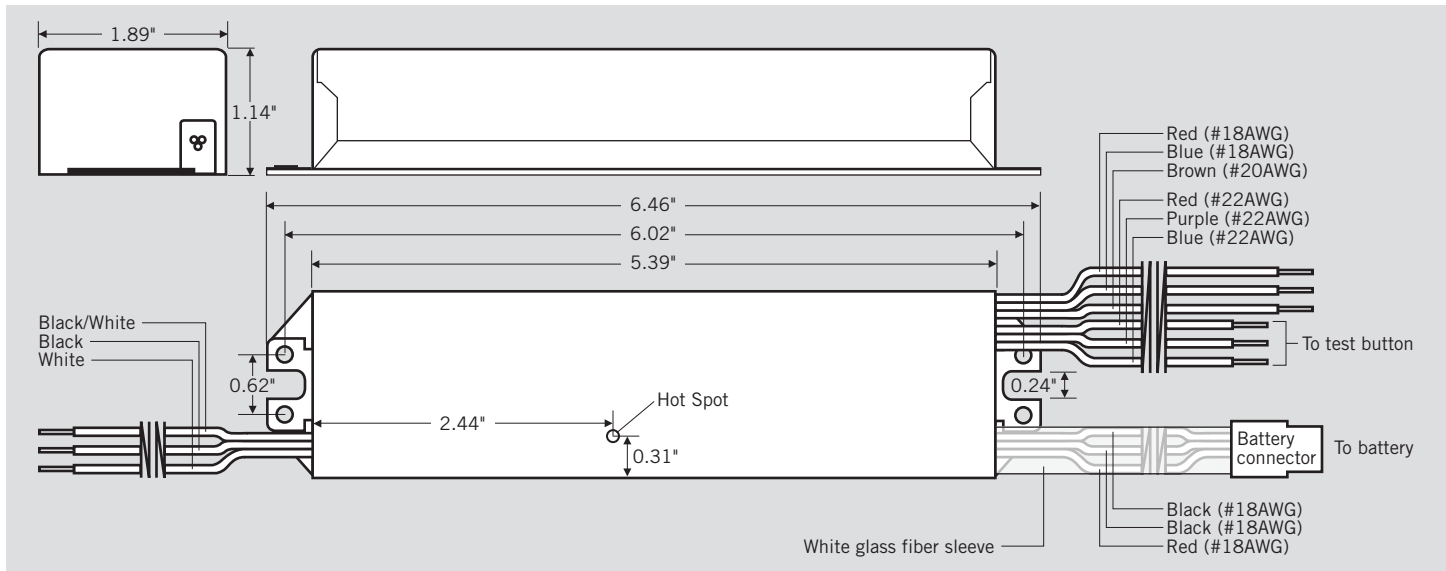
Operating temperature	0°C/32°F to 55°C/131°F
Storage temperature	-20°C/-4°F to 55°C/131°F
Humidity	5% to 95%
MTBF	TBD
Life rating	TBD
Maximum case temperature	167°F (75°C) for LED driver
Maximum ambient temperature	131°F (55°C) for battery

### SAFETY AND EMC COMPLIANCE

UL/cUL	Listed for field or factory installation: UL 924 and CSA No. 141 Emergency Lighting Compliant
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



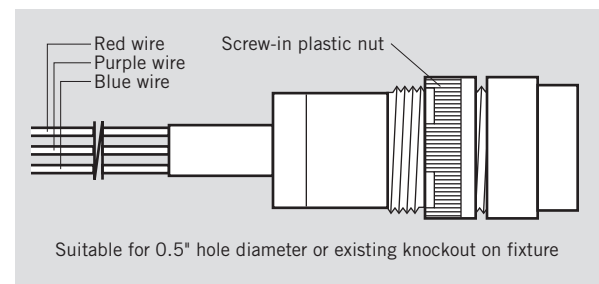
#### LED DRIVER DIMENSIONS

Length (L)	6.46" (164mm)
Width (W)	1.89" (48mm)
Height (H)	1.14" (29mm)
Mounting (M)	6.02" (153mm)

#### WIRE SPECIFICATIONS

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

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

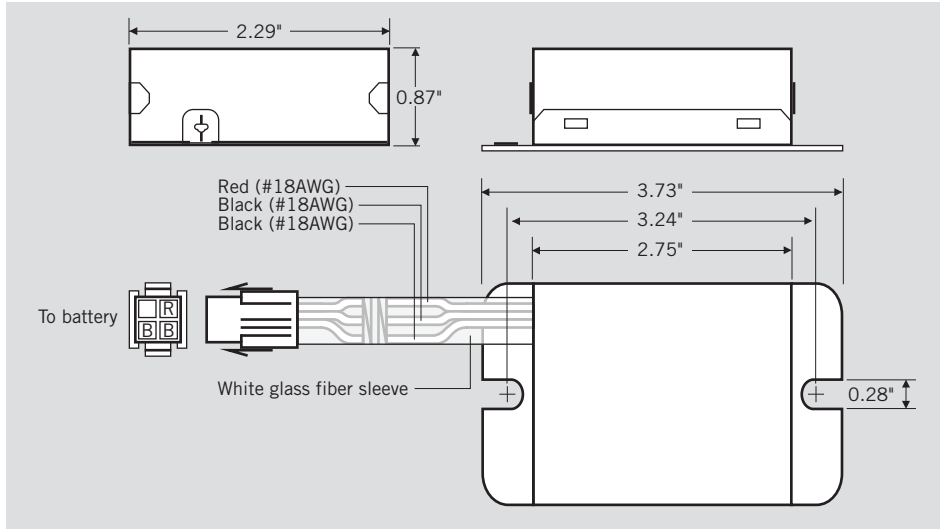




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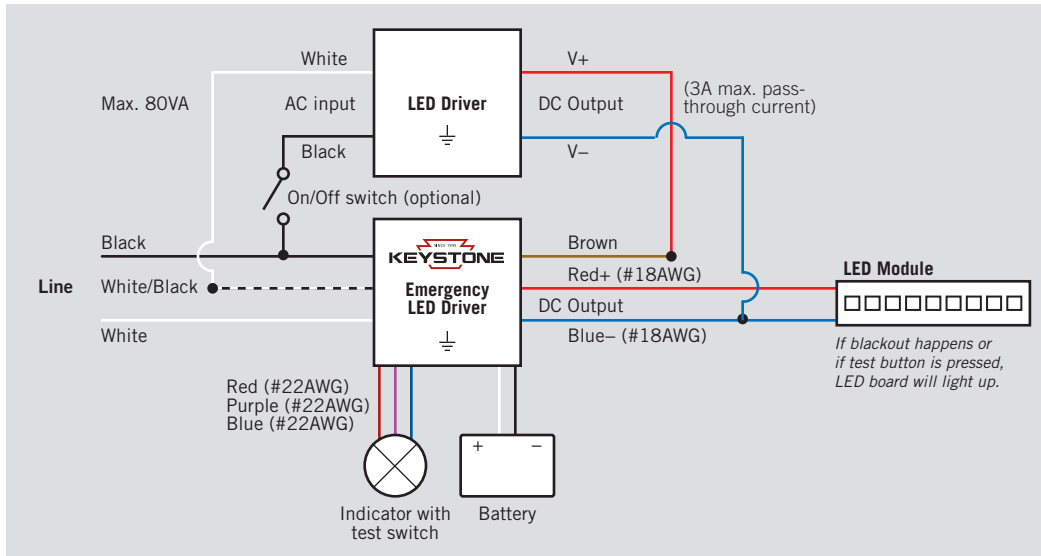
### BATTERY PACK SPECIFICATIONS



### BATTERY PACK DIMENSIONS

<b>Length (L)</b>	3.73" (94.8mm)
<b>Width (W)</b>	2.29" (58.2mm)
<b>Height (H)</b>	0.87" (22.2mm)
<b>Mounting (M)</b>	3.24" (82.2mm)

### WIRING DIAGRAM

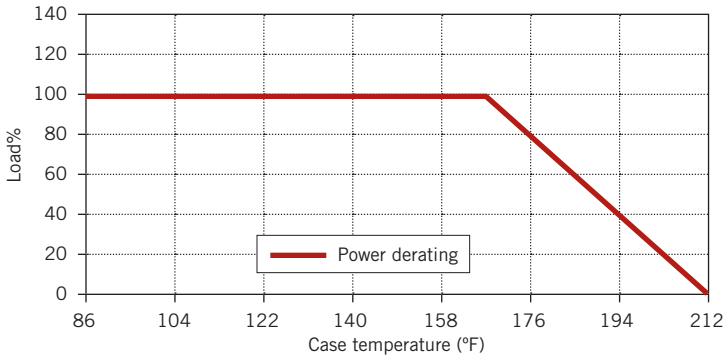




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### POWER DERATING VS CASE TEMPERATURE



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	PACKAGING STYLE	PACK QTY.	ITEM STATUS
KT-EMRG-LED-5C-500-IP	LED Emergency Back-Up, CEC Compliant	Individually Packaged	TBD	Active

### CATALOG NUMBER BREAKDOWN

# KT-EMRG-LED-5C-500-IP

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