



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

## CONSTANT-POWER EMERGENCY LED BACK-UP DRIVER



### DESCRIPTION

Constant-Power Emergency LED Back-Up Driver | 5W Output | 120–277V Input | CEC T20 Compliant

<b>DRIVER TYPE:</b> Constant-Power Emergency LED Back-Up Driver	<b>SAFETY STANDARD:</b> UL 924, Complies with CEC Title 20 Efficiency Standards
<b>MAX. OUTPUT POWER:</b> 5W	
<b>INPUT VOLTAGE:</b> 120–277Vac $\pm$ 10%	<b>LOCATION:</b> IP20 design for dry and damp locations
<b>NUMBER OF OUTPUTS:</b> One	<b>WARRANTY:</b> 5 Years

### ELECTRICAL SPECIFICATIONS

Input voltage range	120–277Vac $\pm$ 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	<170% 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	<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. <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. <b>Short-circuit protection:</b> Hiccup mode. Protection will trigger when short circuit and will auto recover after the fault mode is removed.
Emergency Operation	90 minutes
Battery	High-temperature, maintenance-free, LiFePO <sub>4</sub> battery, 9.6Vdc, 3 cell
Recharge Time	24 hours
Battery Charging Current	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 hours at 40°C/104°F ambient (–55°C/131°F case temp)
Life rating	97,500 hours at 120Vac input, 100% load and 55°C/131°F case temp
Maximum ambient temperature	55°C/131°F

### SAFETY AND EMC COMPLIANCE

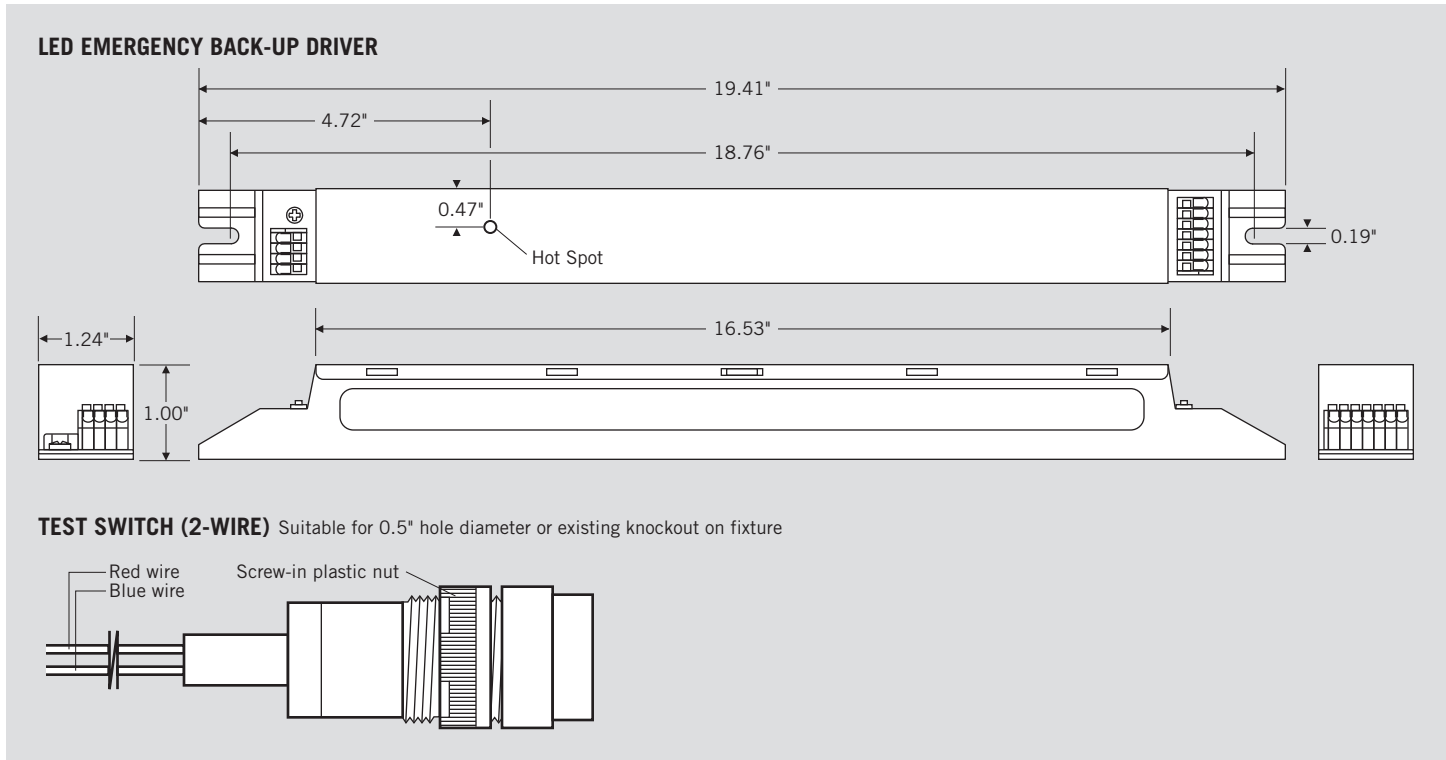
UL/cUL	UL 924, Complies with CEC Title 20 Efficiency Standards
FCC, 47CFR Part 15	ANSI C63.4:2009 Class B (consumer limit)
EN61000-3-2	Harmonic current emissions Class C



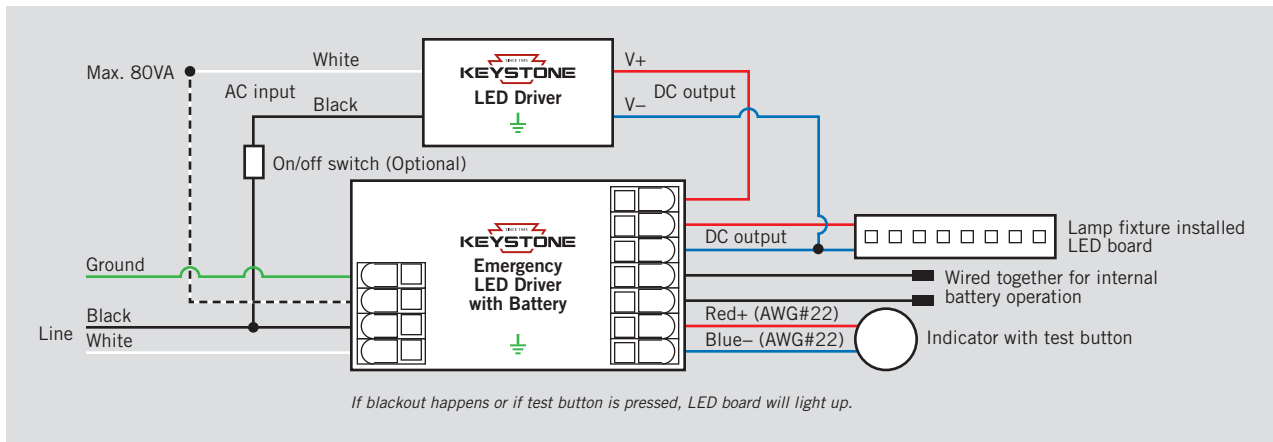
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### PHYSICAL SPECIFICATIONS



### WIRING DIAGRAM





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### ORDERING INFORMATION

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

### CATALOG NUMBER BREAKDOWN

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

1 2 3 4 5 6 7 8

- 1 Keystone Technologies
- 2 Emergency Back-Up
- 3 LED Driver
- 4 Nominal Wattage
- 5 CEC Compliant
- 6 Nominal Lumen Output
- 7 Slim Case
- 8 1-Piece Enclosure