



# KT-EMRG-LED-12C-1200-K1

## LED EMERGENCY BACK-UP DRIVER KIT

### DESCRIPTION

LED Emergency Back-Up Driver Kit | 12W Output | 1200 Lumens | 120–277V Input



**DRIVER TYPE:** Constant Power Emergency LED Driver

**MAX. OUTPUT POWER:** 12W

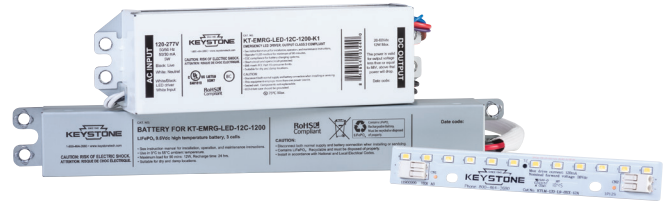
**INPUT VOLTAGE:** 120–277Vac  $\pm 10\%$

**NUMBER OF OUTPUTS:** One

**SAFETY STANDARD:** UL 924

**LOCATION:** IP20 design for dry and damp location

**WARRANTY:** 5 Years



### 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	600mA @ 20Vdc, 206mA @ 58Vdc
Output power	12W (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. <b>Over temperature protection:</b> Protection will trigger when driver overheats and auto-recovery when cooled down.
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	TBD
Life rating	TBD
Maximum case temperature	75°C/167°F for LED driver
Maximum 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

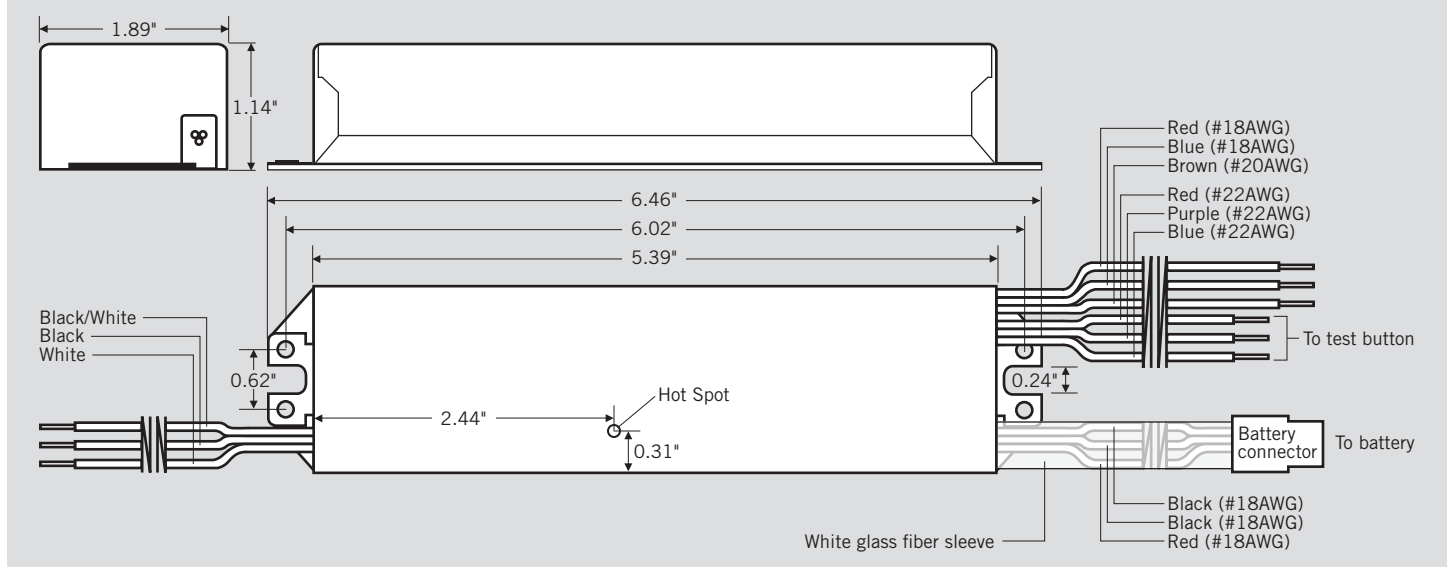


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## LED EMERGENCY BACK-UP DRIVER KIT

### DIMENSIONS AND WIRING SPECIFICATIONS

#### EMERGENCY LED DRIVER SPECIFICATIONS



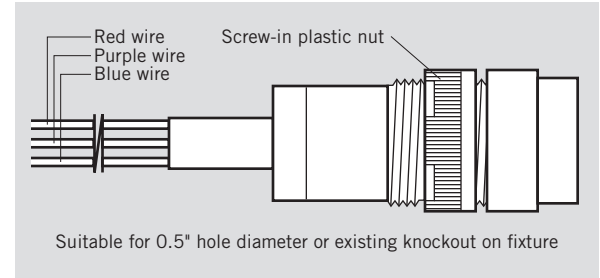
#### LED DRIVER DIMENSIONS

Length (L)	6.46" (92mm)
Width (W)	1.89" (48mm)
Height (H)	1.14" (29mm)
Mounting (M)	6.02" (153mm)

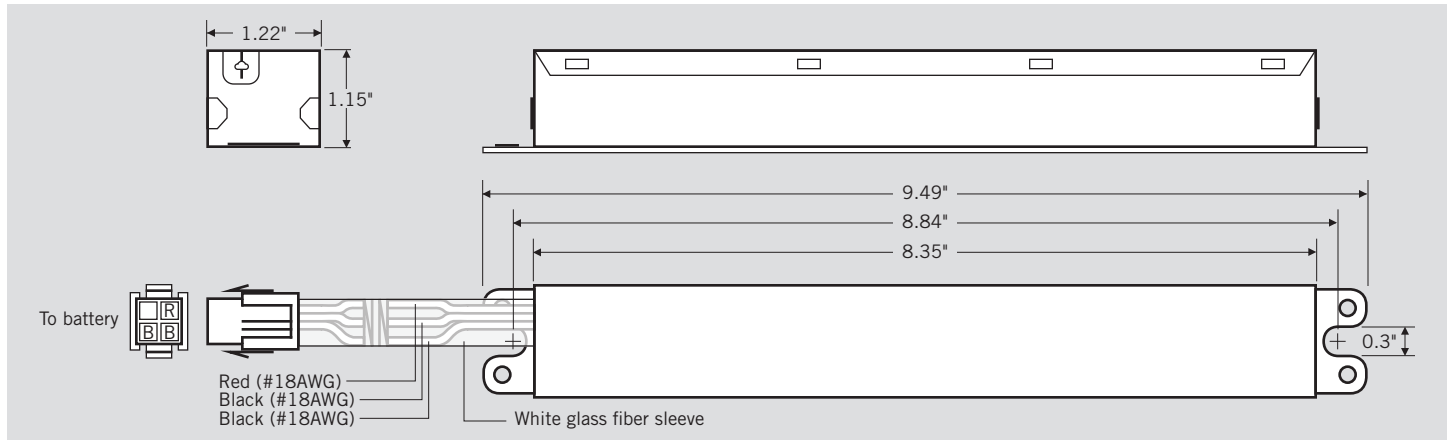
#### WIRE SPECIFICATIONS

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



#### BATTERY PACK SPECIFICATIONS



#### BATTERY PACK DIMENSIONS

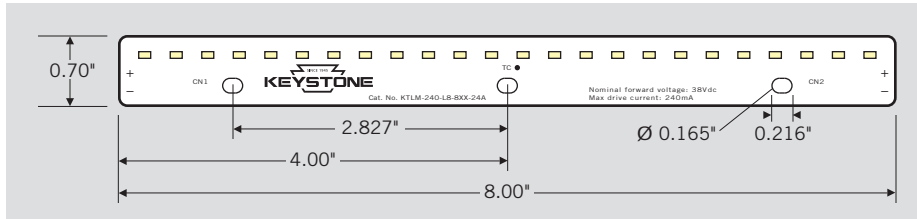
Length (L)	9.49" (241.6mm)
Width (W)	1.22" (31.1mm)
Height (H)	1.15" (29.2mm)
Mounting (M)	8.84" (224.5mm)



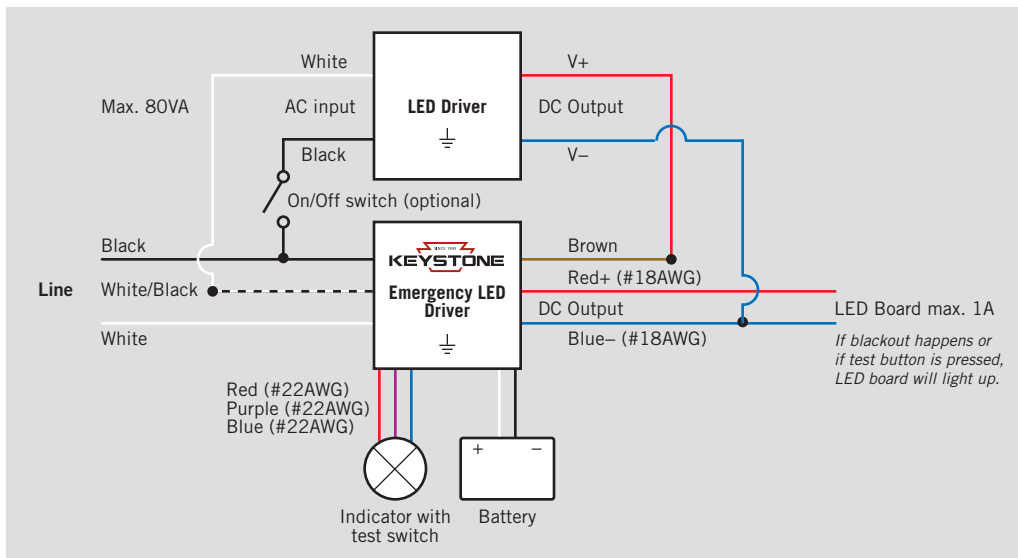
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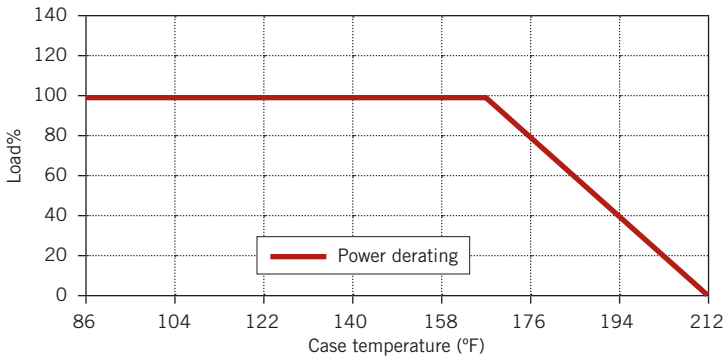
### LED MODULE SPECIFICATIONS



### WIRING DIAGRAM



### POWER DERATING VS CASE TEMPERATURE



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



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LED EMERGENCY BACK-UP DRIVER KIT

ORDERING INFORMATION

ORDER CODE	DESCRIPTION	PACKAGING STYLE	PACK QTY.	ITEM STATUS
KT-EMRG-LED-12C-1200-K1-IP	Constant Power Emergency LED Driver	Individually Packaged	TBD	Active

CATALOG NUMBER BREAKDOWN

KT-EMRG-LED-12C-1200-K1-IP

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 Kit

8 Packaging Style