SINCE 1945
KEYSTONE
LIGHT MADE EASY®

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

- **DRIVER TYPE:** LED Emergency Back-Up Driver
- **MAX. OUTPUT POWER:** 5W
- **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
- **PASS-THROUGH CURRENT:** 3A max

ELECTRICAL SPECIFICATIONS

Input voltage range	120~277Vac ± 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 ≤ 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	**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 and will auto recover after the fault mode is removed. **Over temperature protection:** Protection will trigger when driver overheats and auto-recovery when cooled down.
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

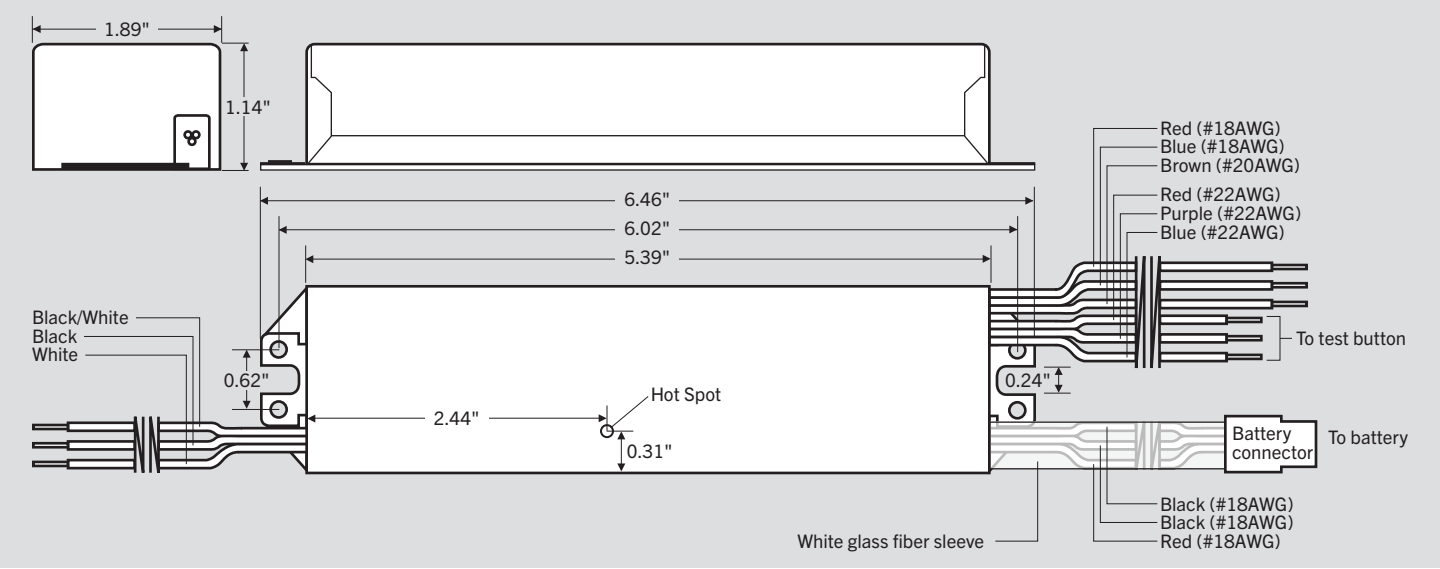
Operating temperature	0ºC/32ºF to 55ºC/131ºF
Storage temperature	–20ºC/–4ºF to 55ºC/131ºF
Humidity	5% to 95%
MTBF	TBD
Life rating	TBD
Maximum case temperature	167ºF (75ºC) for LED driver
Maximum ambient temperature	131ºF (55ºC) for battery

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



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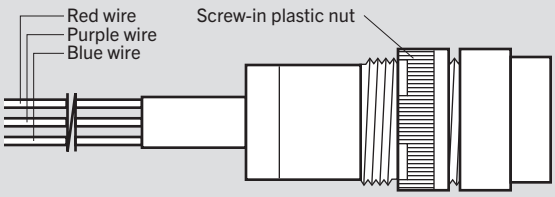
LED DRIVER DIMENSIONS

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

WIRE SPECIFICATIONS

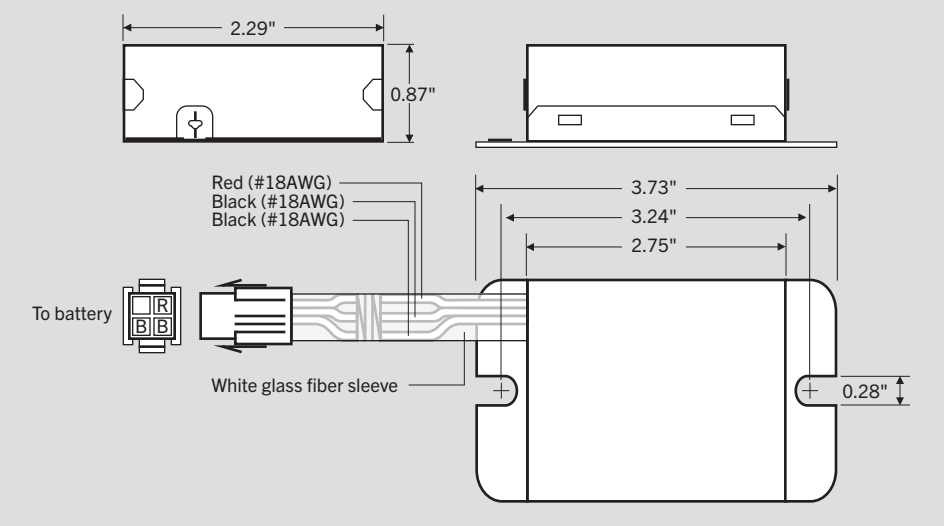
Input		**Black, White, Black/White**	12", UL1316 #18AWG
Output	**To LED module**	**Red, Blue**	24", UL1316 #18AWG
	To LED driver	**Brown**	24", UL1430 #20AWG
	To battery connector	**Red, Black**	24", UL1015 #18AWG
	To test button	**Red, Blue, Purple**	24", UL1430 #22AWG

TEST SWITCH (3-WIRE) SPECIFICATIONS



Suitable for 0.5" hole diameter or existing knockout on fixture

BATTERY PACK SPECIFICATIONS



BATTERY PACK DIMENSIONS

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

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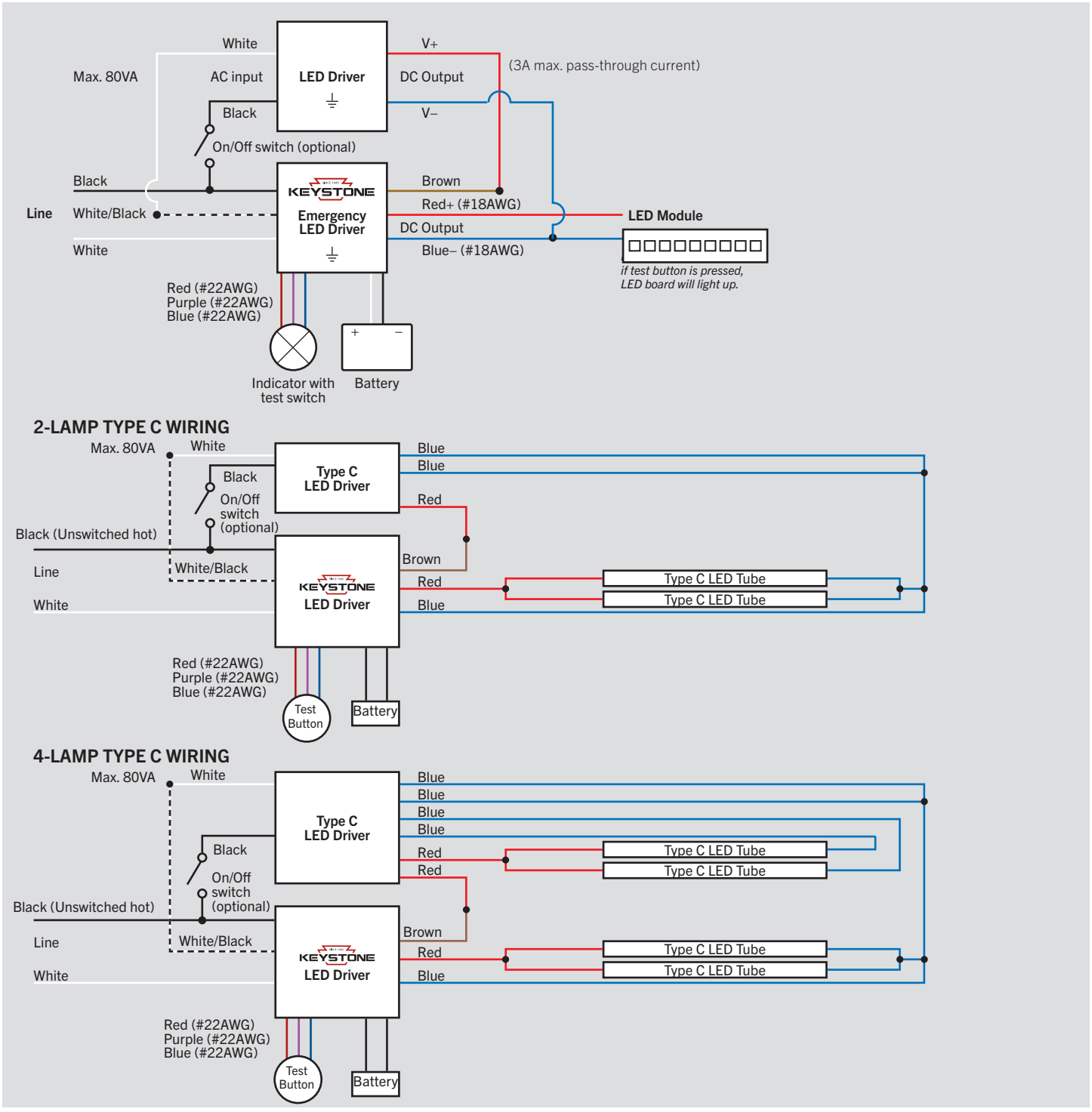
WIRING DIAGRAM



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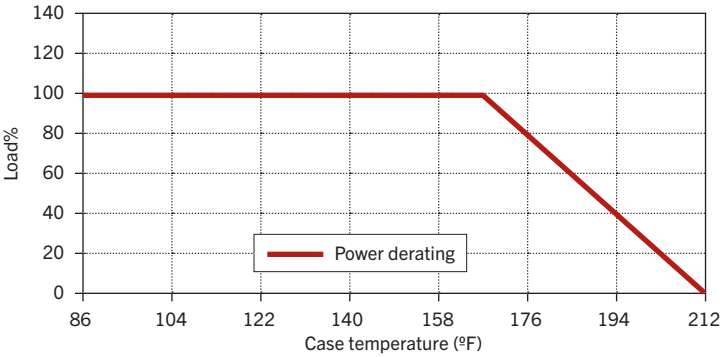
POWER DERATING VS CASE TEMPERATURE



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 2 3 4 5 6 7

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