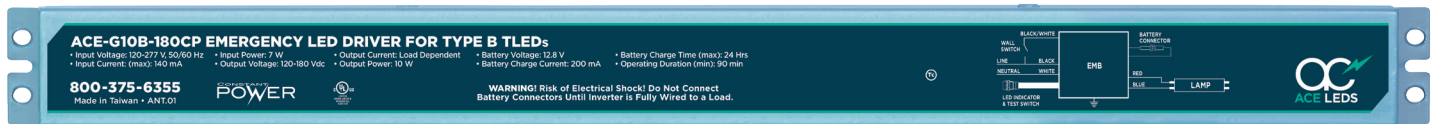


ACE-G10B-180CP Emergency LED Driver for Type B TLEDs



Primary Specifications:

Output Power Max	Input Power	Input Current Max	Emergency Operating Time	Battery	Input Voltage	Output Voltage	Ambient Operating Temperature	UL Listed for US and Canada
10 W	7 W	140 mA	90 min.	LiFePO ₄ 24 Hour recharge 7 to 10 year Life expectancy	120-277 Vac 50/60Hz	120-180 Vdc ¹	0 °C through 55 °C	UL and cUL (UL924) Emergency LED Driver



Description:

The **ACE-G10B-180CP** from AC Electronics is an Emergency LED Driver for Type B LED tubes (TLEDs) that enables the same Type B TLED to be used for both normal and emergency operation. The **ACE-G10B-180CP** contains a battery, a high-efficiency battery charger, control circuitry, and high-efficiency power converter circuits, in a single metal enclosure. In the event of a normal power failure, the **ACE-G10B-180CP**

switches to emergency-mode and operates the fixture's Type B TLED for 90 minutes at a constant power of 10 W. When normal power returns, the **ACE-G10B-180CP** returns to normal-mode. The **ACE-G10B-180CP** can be used in switched or unswitched fixture applications. The **ACE-G10B-180CP** can be used for any compatible Type B LED tube.

Additional Specifications:

Output current range: Load Dependent
Surge protection: 3 kV
Maximum case temperature T_c: 66 °C
Nominal battery voltage: 12.8 V
Battery charge current: 200 mA
Metal enclosure IP rating: IP30
Weight: 4 lb
Dimensions: 15.55 in L x 1.49 in W x 1.16 in H

¹The emergency-mode output voltage operating range is 120 - 180 Vdc.

*Warranty: 5 years based on a maximum case temperature of ≤ 60 °C, 3 years warranty based on a maximum case temperature of ≤ 66 °C

Safety and Regulatory Compliance:

- UL and cUL Listed as an Emergency LED Driver (UL924)
- UL Listed for both field and factory installation
- CEC Title 20 compliant: Certified in CA Title 20 Appliance Efficiency Database – Battery Charger
- EMI: Complies to FCC commercial limits
- RoHS compliant

WARNING!! Risk of Electrical Shock! Do not connect battery connectors until the driver is fully wired to a load!

Features, Benefits, and Applications:

- Constant output power: Maintains constant emergency light levels over the full 90-minute runtime and over the output voltage range.
- Includes input over voltage surge protection, output short circuit, open circuit, and over-voltage protection, as well as over-temperature protection for improved reliability.
- Two-wire universal input: Reduces wiring errors and reduces installation time and complexity.
- Includes a miniature illuminated test switch status indicator: Enables mounting in small spaces.
- Suitable for indoor and damp locations.
- Compatible with a variety of Type B LED tubes.
- Optimized for single-ended Type B LED tubes 5-23W.
- Single lamp full brightness operation at emergency for 1-4 lamp Type B LED fixture.
- Automatic shut down for incompatible TLED installation.

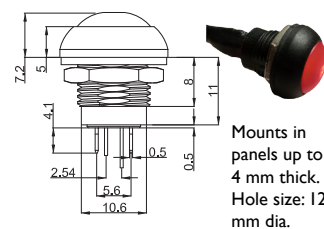
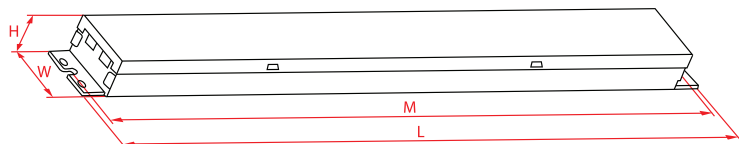
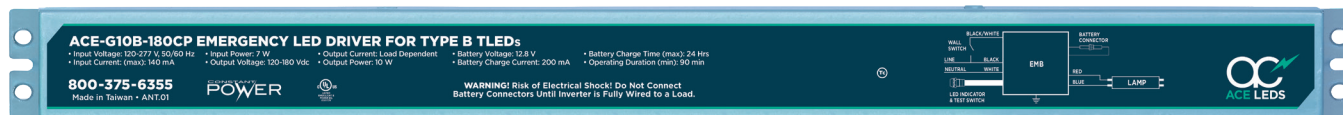
5-Year USA-Backed Warranty*

See complete AC Warranty information for details

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Mounts in panels up to 4 mm thick. Hole size: 12 mm dia.

miniature illuminated test switch

Lead Lengths

Black	5.9"	Red	5.9"	Test Switch/	7.08"/
White	5.9"	Blue	5.9"	LED Indicator	23.62"
Black/White	5.9"			Battery Connector	33.07"

Dimensions

Length	15.55"	Height	1.16"
Width	1.49"	Mounting Length	15.23"

INSTALLATION:

The **ACE-G10B-180CP** Emergency LED Driver may be used with either a switched or unswitched fixture. If used with a switched fixture, an unswitched (constant hot) lead must be connected to this emergency LED driver to allow the battery to charge properly and to maintain a charge when normal AC power is available. This emergency LED driver must not be installed with fixtures where the ambient temperature may fall below 0 °C (32 °F), and it must be installed inside an electrical enclosure.

The **ACE-G10B-180CP** Emergency LED Driver comes in a single metal enclosure with a separate miniature illuminated test switch status indicator. This emergency LED driver is suitable for installation in sealed and gasketed fixtures. The maximum remote mounting distance to the LOAD is 18 feet. The emergency LED driver metal case should be grounded. 18 AWG 600 V, 105 °C tinned stranded copper lead-wires are required for installation.

Specifications:

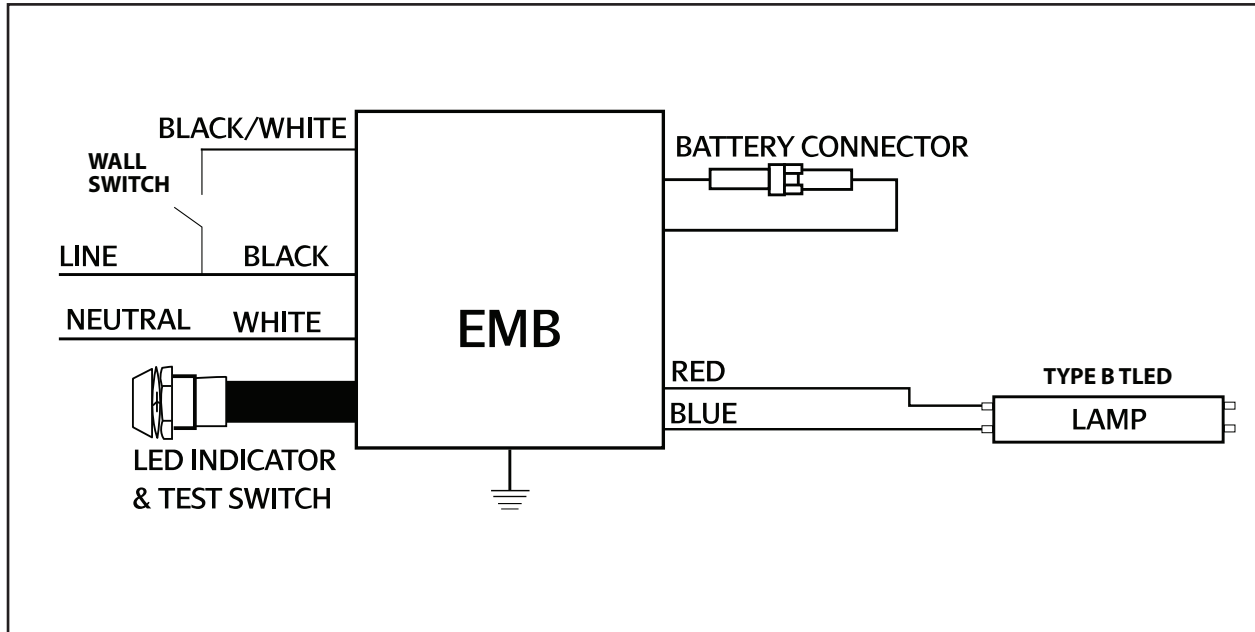
Emergency lighting shall be provided by using the AC Electronics **ACE-G10B-180CP** Emergency LED Driver with a compatible Type B TLED. The **ACE-G10B-180CP** shall contain a battery, a high-efficiency battery charger, control circuitry, a high-efficiency two-wire universal input converter (120 through 277 Vac), high-efficiency output LED driver with soft-switching technology to prevent noise to protect the LED loads, all contained in a single metal enclosure. A separate miniature illuminated test switch status indicator with installation hardware shall be provided for the purposes of performing periodic testing and indicate status change of the battery and battery-charger. The **ACE-G10B-180CP** Emergency

LED Driver shall be capable of delivering a constant power of 10 W to a Type B TLED load of 40 – 180 V for a minimum of 90 minutes. The **ACE-G10B-180CP** Emergency LED Driver shall have a maximum of 7 W input power and shall comply with emergency standards established by the current NEC and shall meet CEC Title 20 (California Energy Commission) efficiency standards. The **ACE-G10B-180CP** Emergency LED Driver shall comply with part 15 of the FCC Rules. The **ACE-G10B-180CP** Emergency LED Driver shall be UL Listed for field or factory installation. The **ACE-G10B-180CP** is suitable for indoor and damp locations.

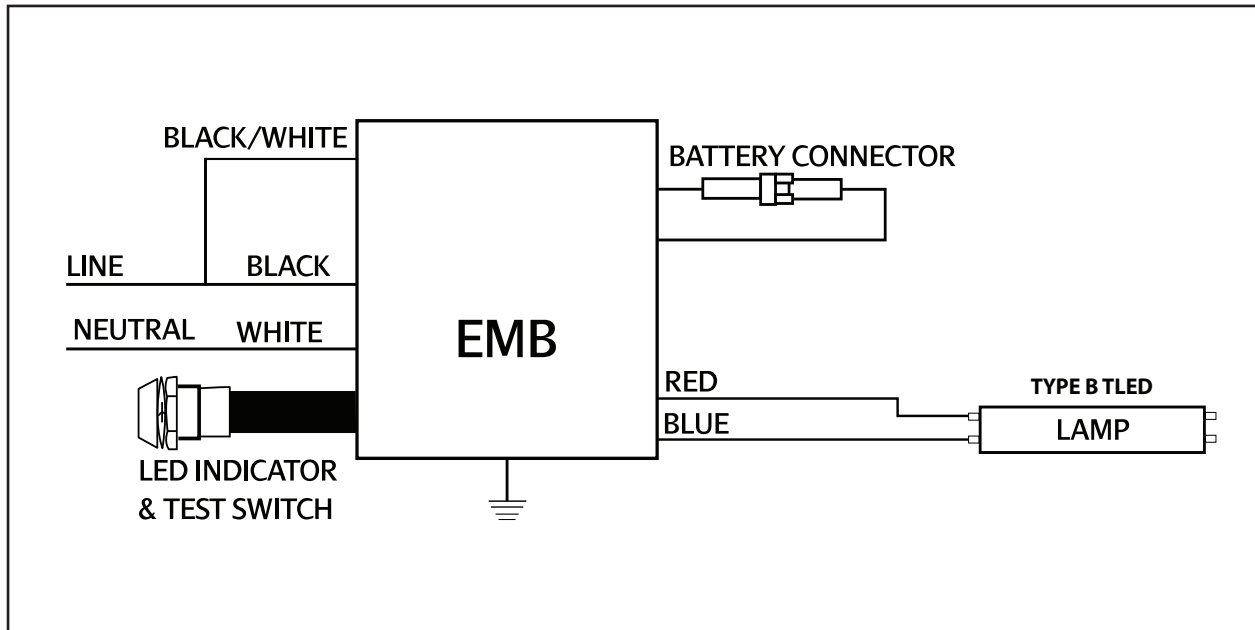
Compatible Lamps:

Lamp Number	Manufacturer	Part Number	Wattage (@ 120 Vac/60 Hz)	Emergency Output		
				Vdc	A	W
1	MaxLite	LI3T8SE450-GB	13.0	56.9	0.177	10.1
2	Everlight	865CNS-GD4	13.2	84.5	0.12	10.1
3	Forest Lighting	MT8S69	17.7	75.9	0.133	10.1
4	Forest Lighting	MT8W69	17.9	79.5	0.127	10.1
5	Everlight	830CNS-GD4	18.2	88.8	0.113	10.1
6	Trunk	LT8TR203LG	18.4	88.7	0.113	10.1
7	Adata	AL-TBT8-4G-18W30	18.5	81.5	0.124	10.1
8	Trunk	LT8TR203DG	18.5	81.8	0.123	10.1
9	East Asia	LTU010-20AALS	19.1	76.3	0.132	10.1
10	East Asia	LTU010-20AADE	19.6	79.6	0.127	10.1
11	T.Shine	T54J-20-30A	19.8	72.7	0.139	10.1
12	NaturaLED	LED12T8/36FR14/840/UNV	12	N/A	N/A	10.1
13	NaturaLED	LED12T8/36FR14/850/UNV	12	N/A	N/A	10.1
14	NaturaLED	LED10.5T8/FR17/840/UNV	10.5	N/A	N/A	10.1
15	NaturaLED	LED10.5T8/FR17/850/UNV	10.5	N/A	N/A	10.1
16	NaturaLED	LED25T5/FR35/850	25	N/A	N/A	10.1

STYLE 1 (SWITCHED)



STYLE 2 (UNSWITCHED)



*AC Electronics/AC LED Power Designs warrants to the purchaser that each Emergency LED Driver will be free from defects in material or workmanship for a period of 5 years when operated at max case temp of up to <60°C when properly installed and under normal conditions of use. See aceleds.com for complete warranty policy.

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