Altronix®

EBC48

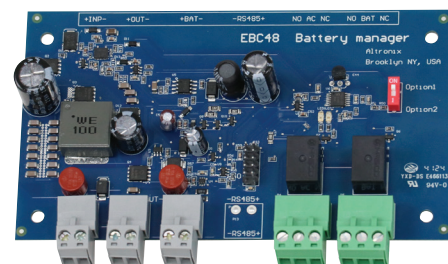### External Rapid Battery Charger (48VDC)

Altronix EBC48 external battery charger provides rapid charging of back-up batteries. Ideal when intergrated with Altronix NetWay Spectrum Hardened Switches working with POE240 or POE360/POE367 power supplies to recharge 32AH in under 8 hours.

Perfect for applications where constant power isn't available (switched power) such as a light pole or other location. During the day, when the power is off, the battery will power the devices (up to 100W total) for 16 hours. When power is restored, it's routed to the devices first and any excess is used to rapidly recharge the battery. EBC48 is a great alternative to expensive solar deployments, trenching to achieve a pathway for traditional electrical connectivity.

EBC48

Specifications

Input

Voltage   56VDC from POE240 or POE360/POE367

Battery Charging

Type $LiFePO_4$, sealed lead acid or gel type
       Charging four (4) 12V batteries in series

Current   2A or 4A selectable operation

Failover   Upon AC loss, instantaneous

Batteries are sold separately

Indicators (LED)

Green   Feed from power supply

Red   Feed from battery

Blinking Red   Battery trouble

Supervision

AC Failure   Form "C" contacts

Low or Missing Battery   Form "C" contacts

Applications

- Deployed on poles where only intermittent power is available
- EBC48 can support cameras as well as edge-based PoE access controllers, and digital signage as well
- Provides long term backup for extended power outages
- Great alternative to expensive solar deployments
- Paired with a LTE router can rapidly charge batteries in-house prior to an event where power will not be constant or available

Physical and Environmental

Dimensions (L x W x H)
   Board: 5.5" x 3" x 1" (139.7mm x 76.2mm x 25.4mm))
   Shipping: 10" x 8" x 4" (254mm x 203.2mm x 101.6mm)

Weight (approx.)
   Product Weight: 0.65 lb. (0.29 kg)
   Shipping Weight: 0.85 lb. (0.38 kg)

Temperature
   Operating: – 20ºC to 49ºC (– 4ºF to 120ºF)
   Storage: – 20ºC to 70ºC (– 4ºF to 158ºF)

Relative Humidity   85% +/– 5%

BTU/Hr. (approx.)   34.1 BTU/Hr.

Battery Backup Calculator:

Battery	Charging Current	Full Charge Time	Approximate Back-Up Time	
			120W	240W
7AH	2A	4 hr.	2.5 hr.	1.25 hr.
	N/A	N/A		
12AH	2A	7 hr.	4.5 hr.	2.25 hr.
	4A	3.5 hr.		
32AH	2A	16 hr.	12.8 hr.	6.4 hr.
	4A	8 hr.		

*Note: Calculation is based on Power Sonic PSL-48320-G2C LiFePO4 battery
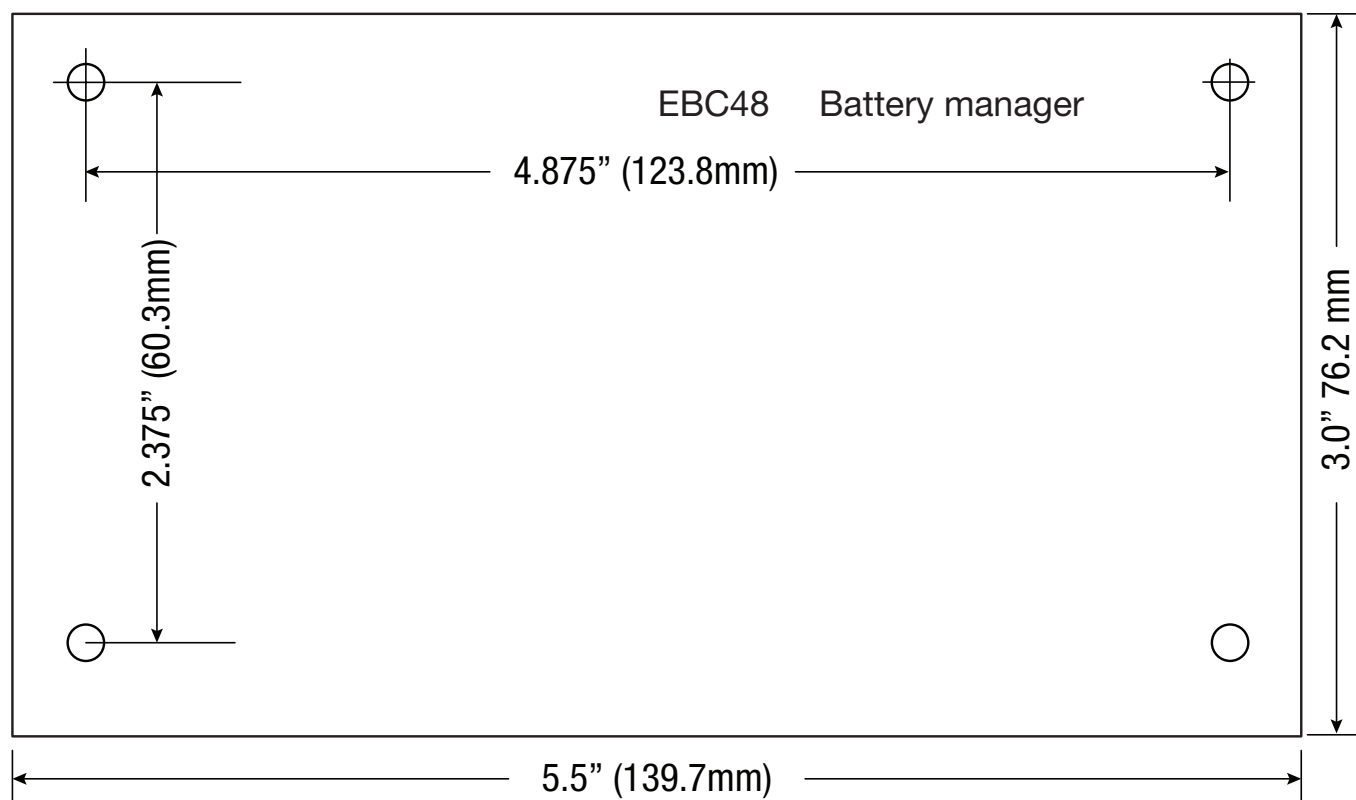
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EBC48
External Rapid Battery Charger (48VDC)

Dimensions and Drawing

Board Dimensions (L x W x H approximate)
5.5" x 3" x 1" (139.7mm x 76.2mm x 25.4mm)
Mounting Holes' Tolerance: +/− 0.04 in. (1mm)

EBC48   Battery manager

4.875" (123.8mm)

2.375" (60.3mm)

3.0" 76.2 mm

5.5" (139.7mm)