



Note: Failure to follow the recommendations in the design notes could void the battery manufacturers warranty.

- 1 Cable and fuse size dependent on Battery to Battery charger used. See Sterling diagram for details.
- 2 Mount the B to B fuse as close to the battery as possible.
- 3 Chassis DC grounding conductor should be sized not less than one size smaller than the DC positive conductor and have a capacity such that the DC positive fuse has an amperage rating not greater than 135% of the current rating of this grounding wire.
- 4 Regenerative braking compatible. See Sterling diagram for wiring details.
- 5 See Solar diagram for wiring details.
- 6 See Inverter diagram for AC wiring details.
- 7 A class "T" fuse is preferred but a MEGA fuse may be substituted. Mount the inverter fuse as close to the positive distribution bus as possible.
- 8 The Lithionics IonGage monitors battery voltage, current, power, amp-hours consumed and state of charge.
- 9 A class "T" fuse is preferred but a MEGA fuse may be substituted. Mount the main fuse as close to the battery as possible.
- 10 Minimum run from the battery to the positive distribution bus to be 2 ft or greater, to provide extra resistance for the inverter inrush management.
- 11 Minimum run from the positive distribution bus to the inverter to be 2 ft or greater, to provide extra resistance for the inverter inrush management. **If the run is longer than 8 ft the cable size can be increased to 4/0.**
- 12 Switch is required for inverter isolation and inrush management when first turning on the system.

NO.	DATE	REVISION	BY



DRAWN BY: **Thomas Turnbull**
 CHECKED BY:
 SCALE: **No Scale**
 SHEET NO: **01**
 Lithionics 315 Kit Rev. 05 (Main diagram)