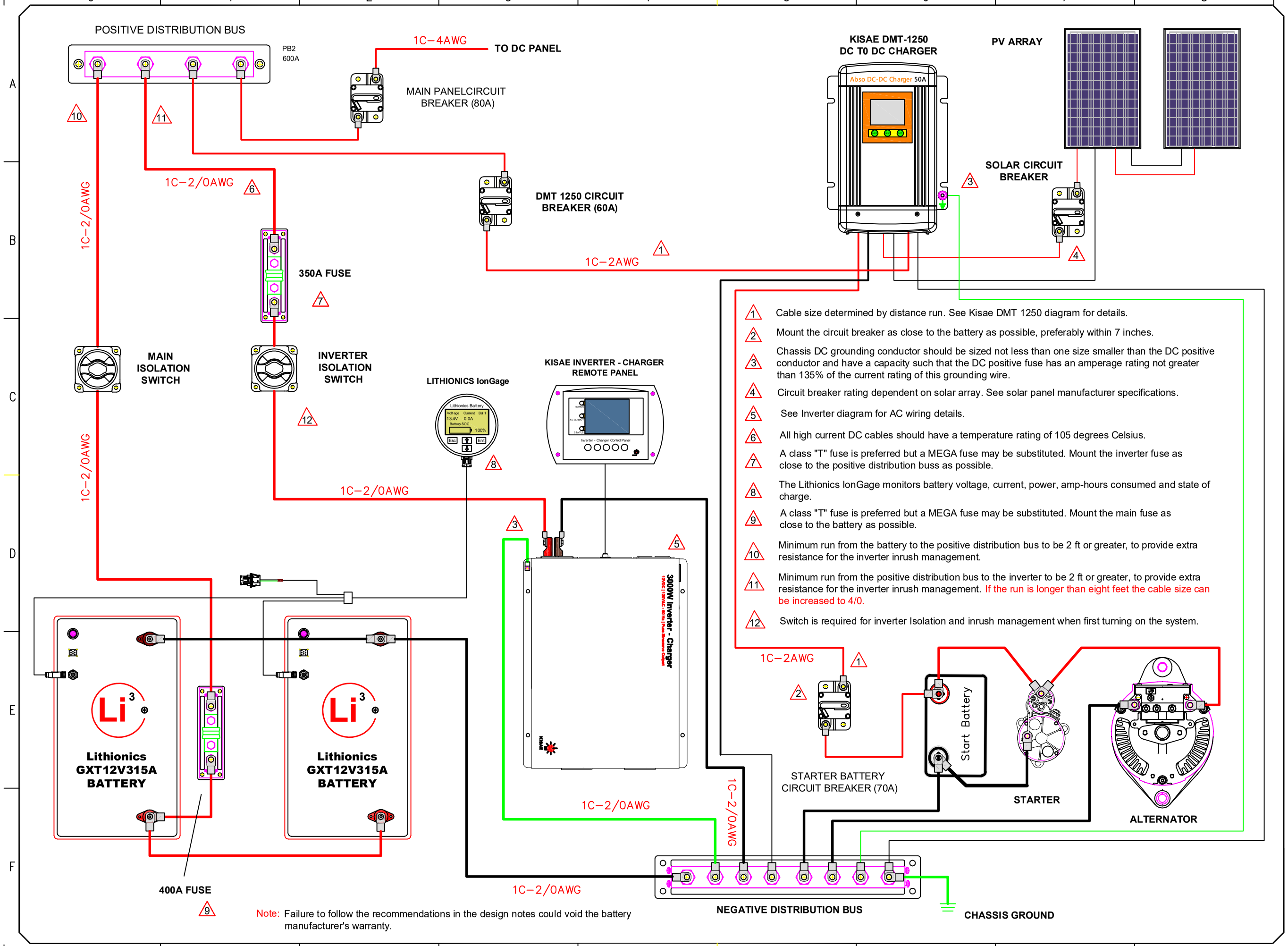

1. Cable size determined by distance run. See Kisae DMT 1250 diagram for details.
2. Mount the circuit breaker as close to the battery as possible, preferably within 7 inches.
3. Chassis DC grounding conductor should be sized not less than one size smaller than the DC positive conductor and have a capacity such that the DC positive fuse has an amperage rating not greater than 135% of the current rating of this grounding wire.
4. Circuit breaker rating dependent on solar array. See solar panel manufacturer specifications.
5. See Inverter diagram for AC wiring details.
6. All high current DC cables should have a temperature rating of 105 degrees Celsius.
7. A class "T" fuse is preferred but a MEGA fuse may be substituted. Mount the inverter fuse as close to the positive distribution buss 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 eight feet 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.

Note: Failure to follow the recommendations in the design notes could void the battery manufacturer's warranty.

NO.	DATE	REVISION	BY

DWG TITLE

ENGINEER	CHECKED BY
JOB NO	DRAWN BY James Turnbull
SCALE No Scale	DATE
DWG NO	Lithionics 315 Rev. 05 (Main diagram)
SHEET NO	OF

CAD DWG FILE