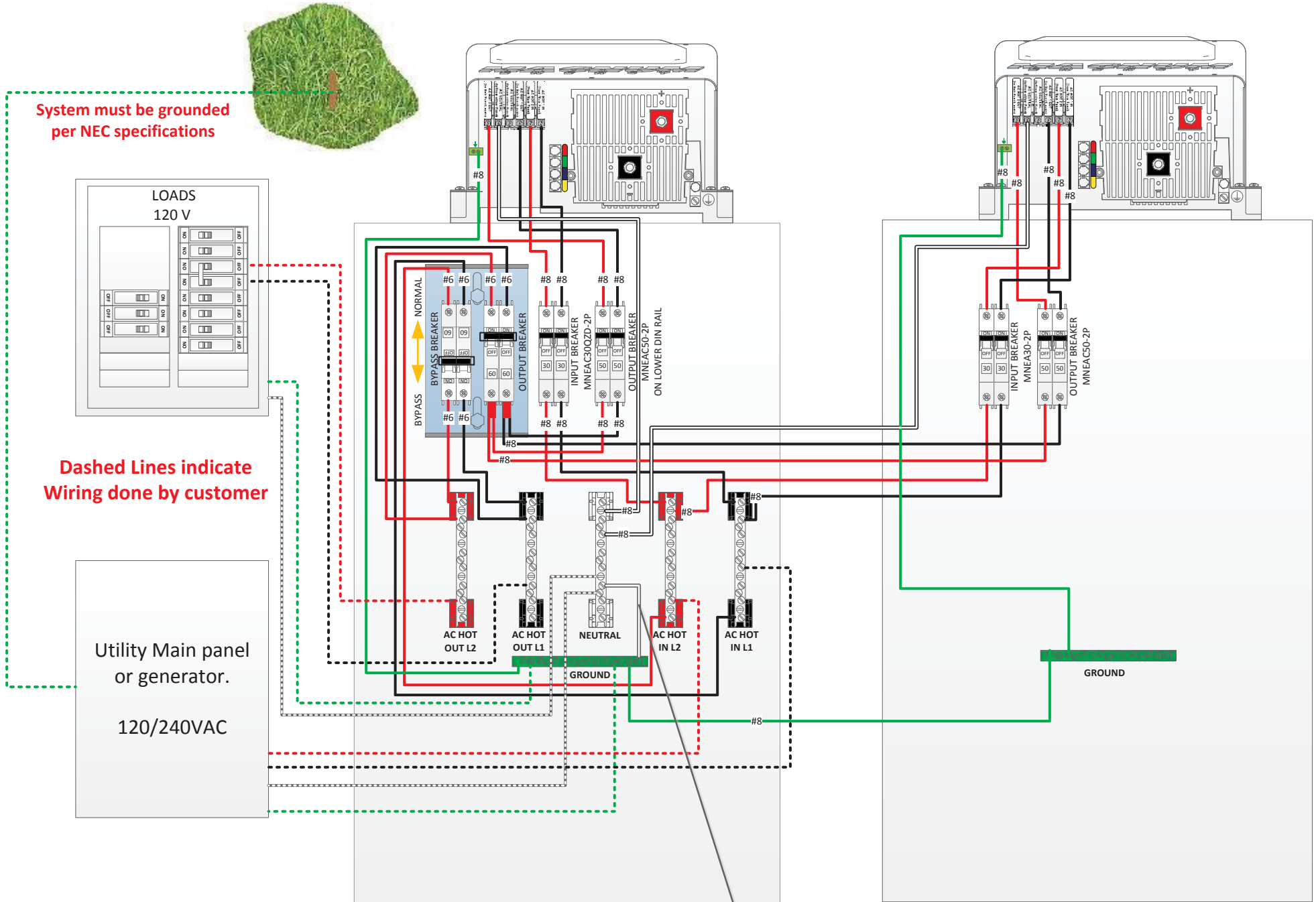


# MAGNUM MS4448PAE DUAL INVERTERS WITH 2 CLASSIC 150'S



System must be grounded  
per NEC specifications

Dashed Lines indicate  
Wiring done by customer

Utility Main panel  
or generator.  
120/240VAC

Customer should remove this wire if this is a grid connected home or if the AC neutral to ground bond is already made in the electrical system. If you are unsure please consult with your electrician.

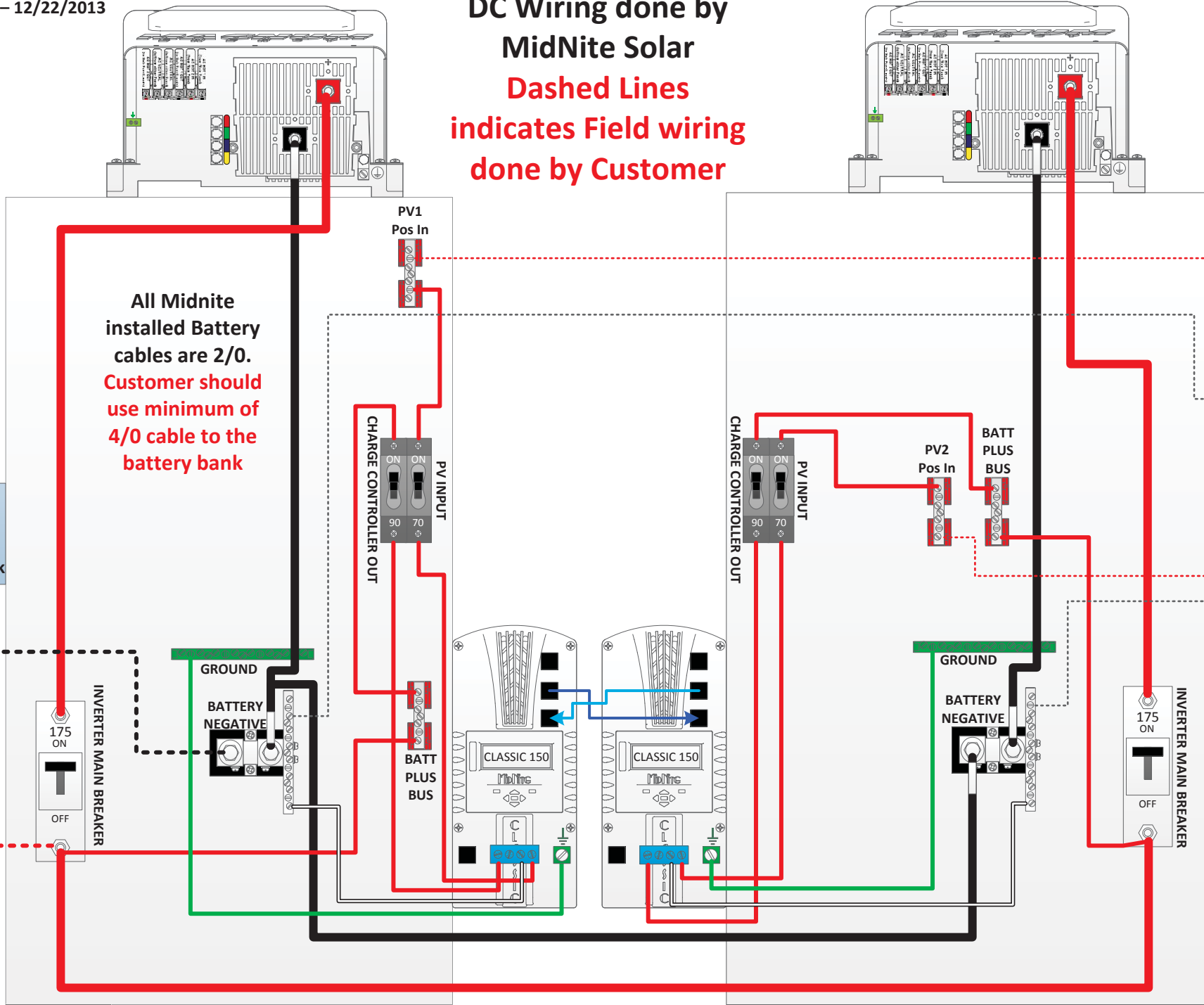
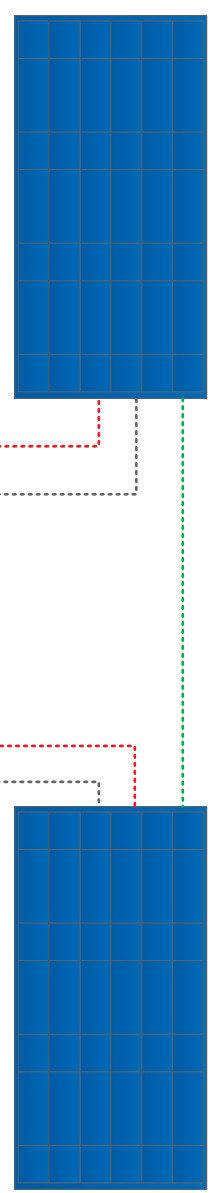


# DC Wiring done by MidNite Solar

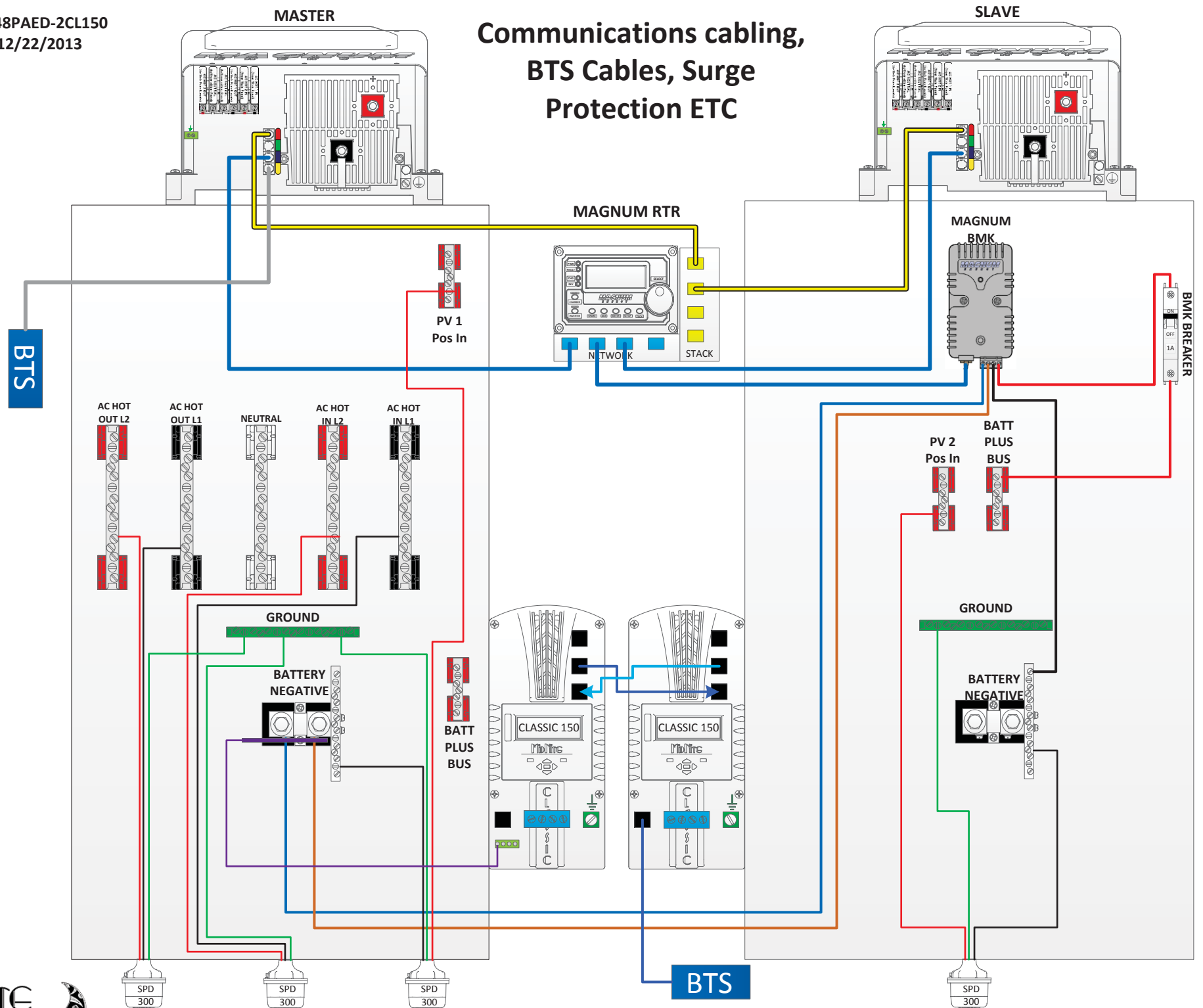
Dashed Lines  
indicates Field wiring  
done by Customer

48 Volt  
Customer  
supplied  
battery bank

All Midnite  
installed Battery  
cables are 2/0.  
Customer should  
use minimum of  
4/0 cable to the  
battery bank



# Communications cabling, BTS Cables, Surge Protection ETC



# Build Notes

- 1- Use 2 Classic 150's
- 2- Use 4 SPD300's
- 3- Requires 2 an MNE175STM-240 E-Panels
- 4- Requires MidNite Back Plate
- 5- Use 2 MNEDC90 Breakers for the Battery side 1 for each Classic.
- 6- Use 2 MNEDC70 Breakers for the PV side 1 for each Classic.
- 7- Put Each Classics breakers in that E-panel above the respective Classic
- 8- Install and wire the Magnum BMK and power it through a MNEPV2 Breaker
- 9- Put PV breaker towards the Top/Front of the E-Panel
- 10-Use MNEDC175s for the battery Main Breakers
- 11- Wire the WBjr to Aux2 Positive in Classic 1 (Left side Classic)
- 12- Make sure to label the PV inputs 1 and 2. Classic 1 is on the left
- 13- Install Follow Me Cables and Classic BTS
- 14- Install Magnum Energy BTS
- 15- Use #4 wire from Battery Main breaker to the Battery Positive bus bar
- 16- All AC wiring to be #8 except Bypass wiring that is #6.
- 17- ByPass breakers to be 60 amp 2 pole
- 18- Input Breakers are 30 amp 2 pole, Output breakers are 50 amp 2 pole.
- 19- Make sure to set the Magnum back to factory default battery chemistry.
- 20- Program the classics for Follow-Me, BTS Slave/Master, Nominal Battery voltage etc.
- 21- Follow proper test procedures to confirm Sunny Island and Classic functionality
- 22- Send all Pages to the Customer.

Signed by Builder \_\_\_\_\_