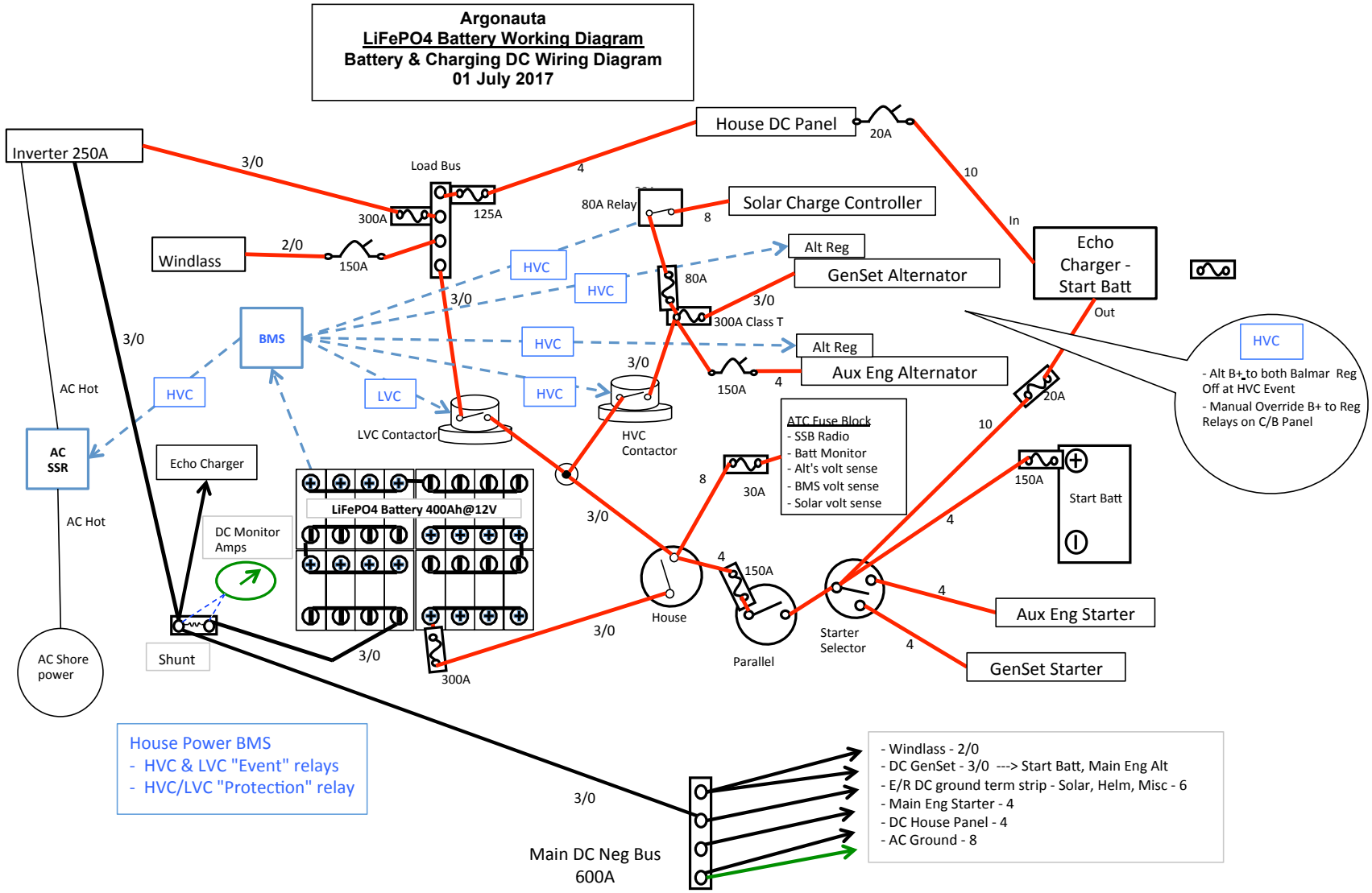
Argonauta
LiFePO4 Battery Working Diagram
Battery & Charging DC Wiring Diagram
01 July 2017
Inverter 250A
3/0
Load Bus
300A
125A
House DC Panel
20A
4
10
In
Echo Charger - Start Batt
Out
80A Relay
8
Solar Charge Controller
Windlass
2/0
150A
HVC
HVC
Alt Reg
GenSet Alternator
80A
3/0
300A Class T
3/0
BMS
HVC
Alt Reg
Aux Eng Alternator
150A
4
3/0
HVC
- Alt B+ to both Balmar Reg Off at HVC Event
- Manual Override B+ to Reg Relays on C/B Panel
AC Hot
HVC
LVC
HVC
LVC Contactor
HVC Contactor
20A
10
ATC Fuse Block
- SSB Radio
- Batt Monitor
- Alt's volt sense
- BMS volt sense
- Solar volt sense
AC SSR
Echo Charger
8
30A
150A
Start Batt
LiFePO4 Battery 400Ah@12V
3/0
4
AC Hot
DC Monitor Amps
4
150A
House
4
Aux Eng Starter
Shunt
3/0
300A
3/0
Parallel
Starter Selector
4
GenSet Starter
AC Shore power
House Power BMS
- HVC & LVC "Event" relays
- HVC/LVC "Protection" relay
3/0
Main DC Neg Bus
600A
- Windlass - 2/0
- DC GenSet - 3/0 ---> Start Batt, Main Eng Alt
- E/R DC ground term strip - Solar, Helm, Misc - 6
- Main Eng Starter - 4
- DC House Panel - 4
- AC Ground - 8