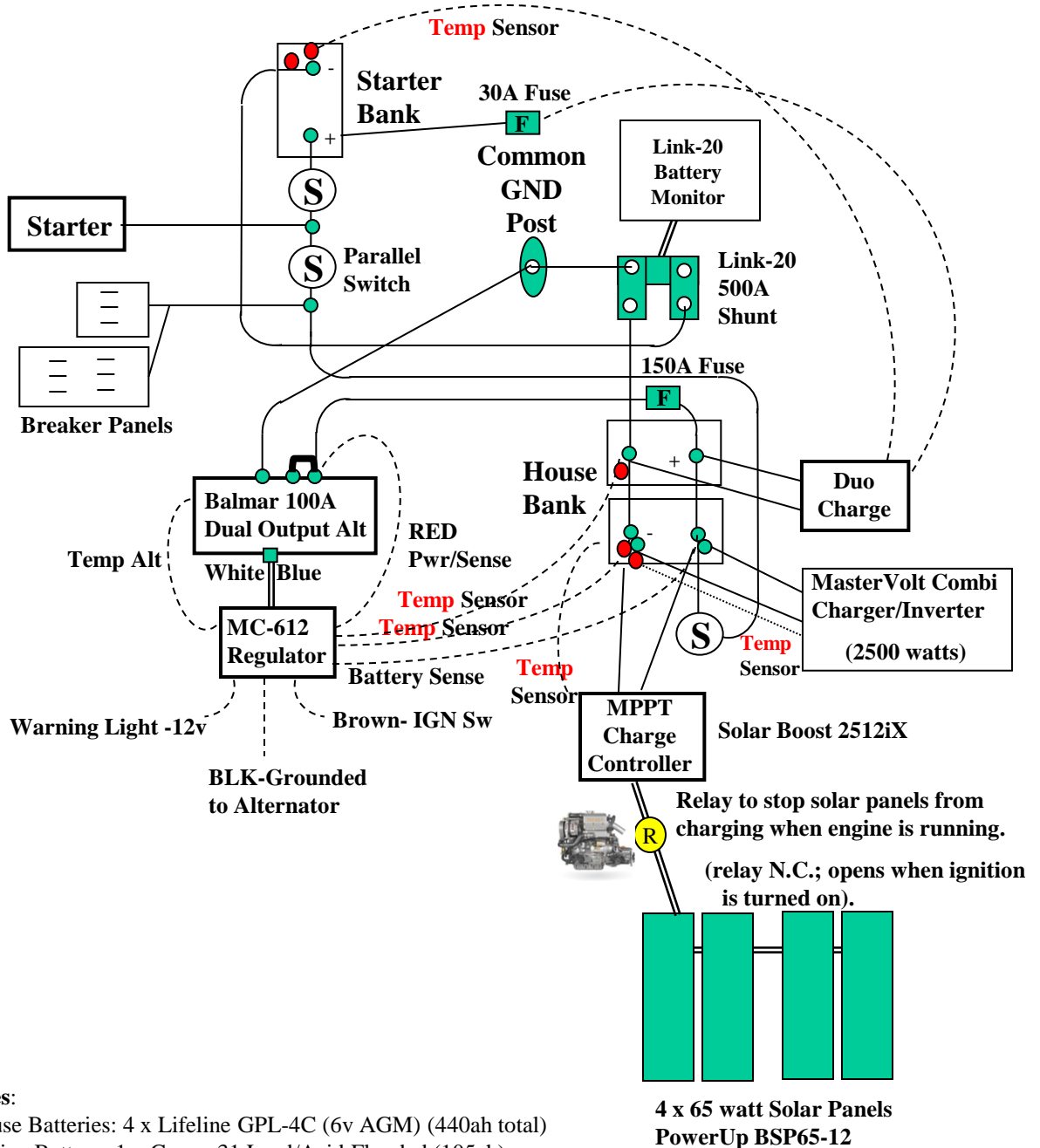


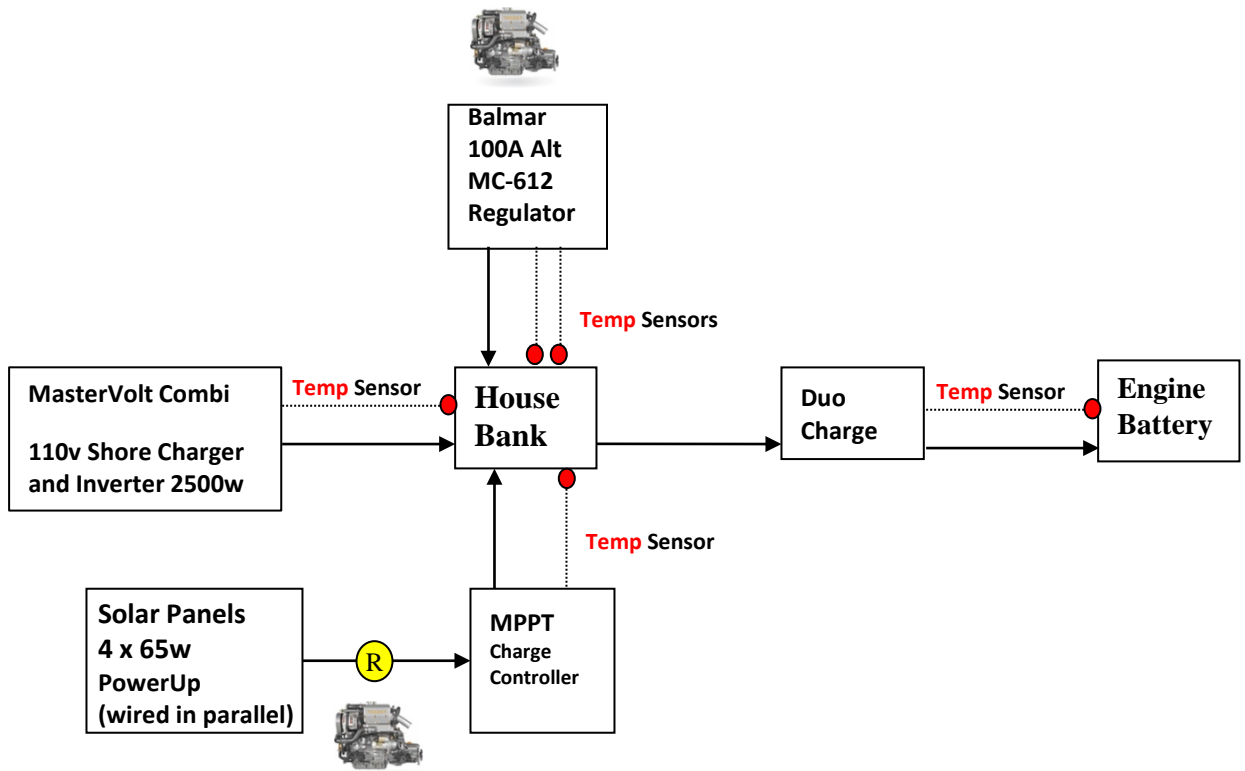
Sea Dream - Electrical Upgrade - August 2000/June 2004/2008/2011



Notes:

- House Batteries: 4 x Lifeline GPL-4C (6v AGM) (440ah total)
- Engine Battery: 1 x Group-31 Lead/Acid Flooded (105ah)
- Digital Duo Charge w/temp sensor to reduce/stop charge if starting battery is too hot
- Temp sensor to MC-612 from starting battery to activate dash light if overtemp
- Temp Sensor to MC-612 from house bank to activate dash light and stop charge if overtemp
- Alternator Temp Sensor to MC-612 to stop/reduce charge if overtemp
- MasterVolt Shore Charger (2011) only to charge main house bank (AGM)
 - Duo Charge will keep engine bank charged bleeding power from the house bank when it's being charged.
- Use relay to break charging voltage from panels when engine is running or engine regulator and solar panel regulators will fight each other and charging will suffer.
- MasterVolt inverter will power all appliances on board except the A/C Compressor. (Hot Water heater is connected)

Sea Dream - Electrical Block Diagram



Relay to stop solar panels from charging when engine is running.

(relay N.C.; opens when ignition is turned on).

Balmar Regulator Faults that will turn on the Engine Dashboard light

- High Voltage (over 15.0v)
- Low Voltage (under 12.6v)
- Alternator Overtemp (over 105 C / 221 F)
- Battery Overtemp (over 50 C / 122 F)
- To reset error codes go into Advanced Programming mode and after it cycles through three times it will reset all codes