SP PRO CHARGE & DISCHARGE SETTINGS

The SP Pro inverter charger can be used with MPS batteries

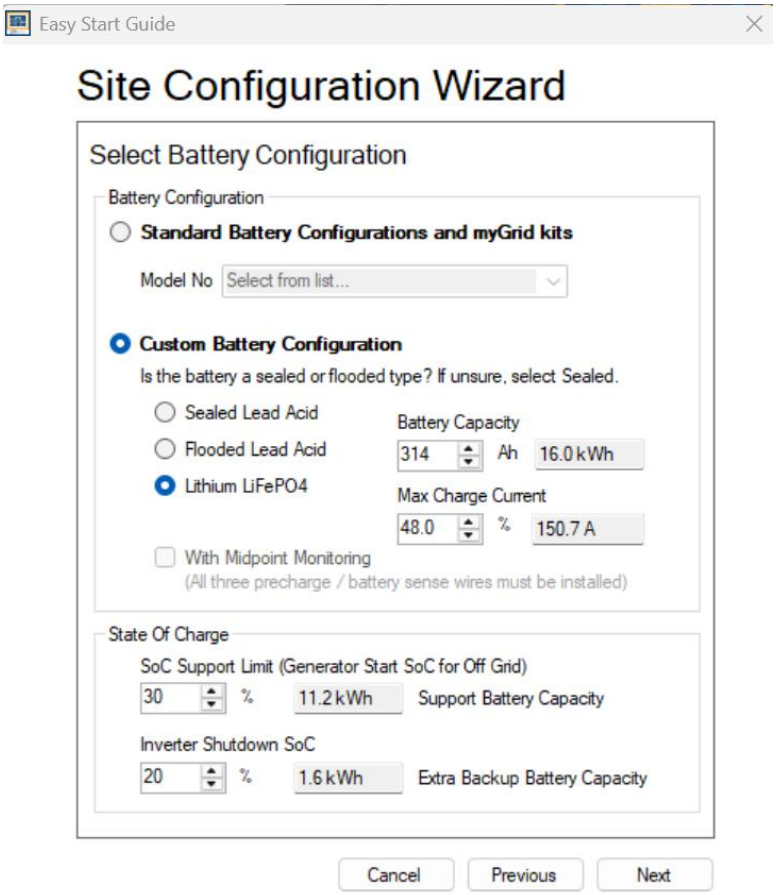
Care should be taken to adjust settings accordingly when having multiple charging sources.

It is recommended to attach the Selectronic SP Pro battery temperature sensor to the case of the battery that will be the hottest. The use of the temperature sensor will increase the life expectancy of the battery.

The SP Pro pre charge circuit must be used to avoid damage to the batteries.

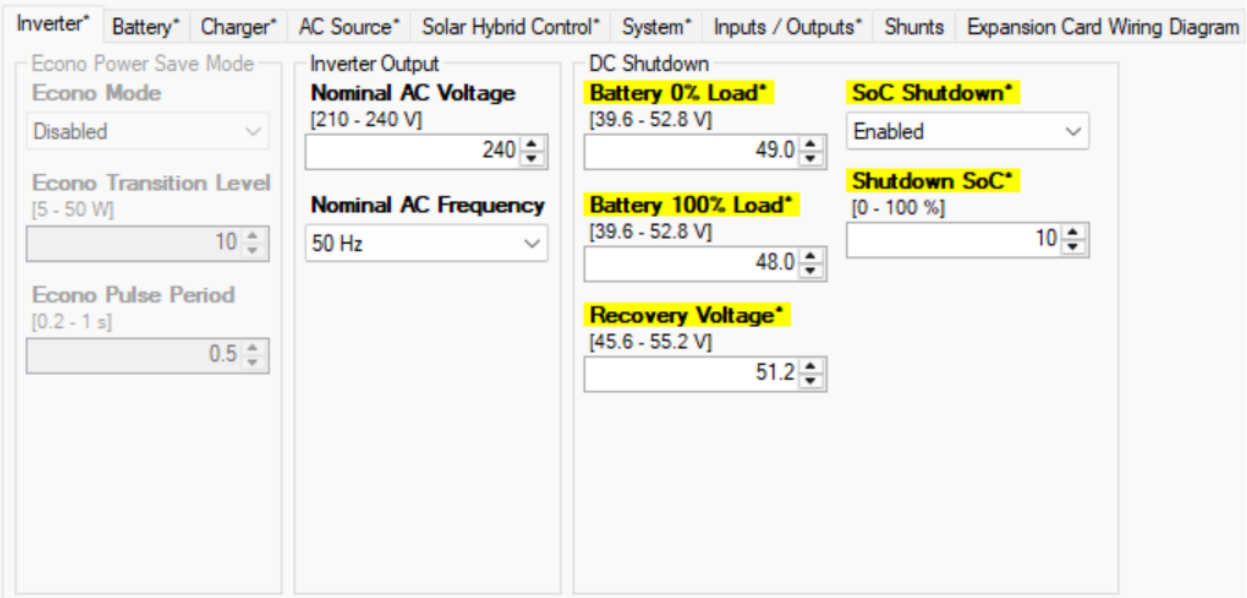
These settings are correct at the time of creation and are subject to change.

- Select "Custom Battery Configuration"
- Select "Lithium LiFePO4"
- Set the "Battery Capacity" to the battery bank capacity (qty x 314ah)
- Set the "Max Charge Current" to 48%
- Set "State Of Charge" set points as desired.



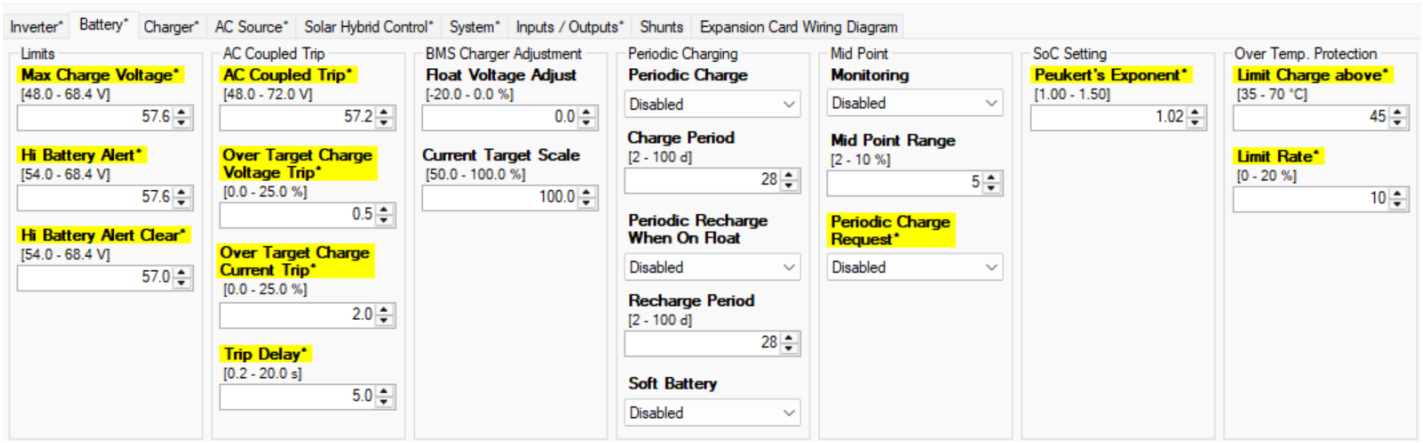
Inverter Tab

- DC Shutdown
  - Battery 0% Load – 49.0 volts
  - Battery 100% Load – 48.0 volts
  - Recovery Voltage – 51.2 volts
- SoC Shutdown
  - Enabled
  - 10%



Battery Tab

- Limits
  - Max Charge Voltage – 57.6 volts
  - Hi Battery Alert – 57.6 volts
  - Hi Battery Alert Clear – 57 volts
- AC Coupled Trip
  - AC Coupled Trip – 57.2 volts
  - Over Target Charge Voltage Trip – 0.5%
  - Over Target Charge Current Trip – 2.0%
  - Trip Delay – 5.0 seconds
- Battery
  - Equalise Period – 28 days
  - Periodic Recharge – Disabled
- SoC Setting
  - Peukert's Exponent – 1.02
- Over Temp. Protection
  - Limit Charge above – 45 degrees Celsius
  - Limit rate – 10%



Charger Menu

- Charge Settings
  - Max. Charge Current – 48%
  - Initial Return Voltage – 54.2 volts
  - Initial return SOC – 95%
- Initial Stage
  - Voltage – 56.7 volts
  - Current – 100%
  - Time – 1 minute
- Bulk Stage
  - Voltage – 56.7 volts
  - Current – 100%
  - Time – 1 minute
- Absorption Stage
  - Voltage – 56.8 volts
  - Current – 100 %
- Absorb-Float Transition
  - Net Change – 1%
  - Change Time – 10 minutes
  - Max Time - 30 minutes
- Float Stage
  - Voltage – 56.8 volts
  - Current – 100 %
  - Long Term Voltage – 56.8 volts
- Equalise Stage
  - Voltage – 56.8 volts
  - Current – 100%
  - Time – 2 hours