

SP PRO CHARGE & DISCHARGE SETTINGS

The SP Pro inverter charger can be used with MPS batteries

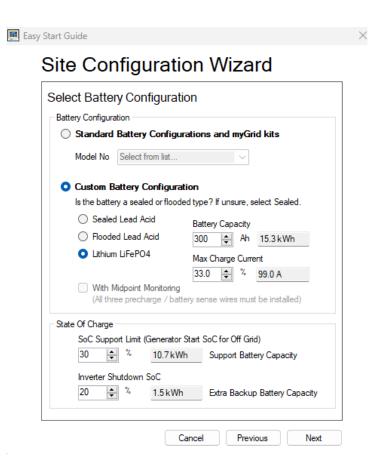
Care should be taken to adjust settings accordingly when having multiple charging sources.

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.

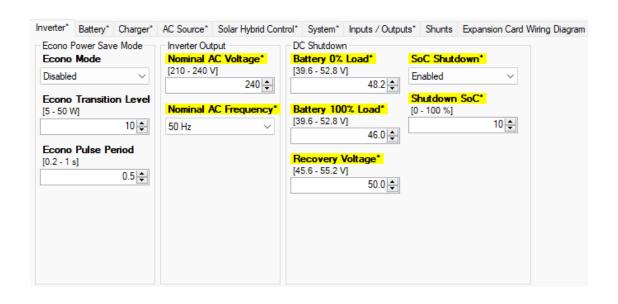
- Select "Custom Battery Configuration"
- Select "Lithium LiFePO4"
- Set the "Battery Capacity" to the battery bank capacity (qty x 100ah)
- Set the "Max Charge Current" to 33.3%
- Set "State Of Charge" set points as desired.





Inverter Tab

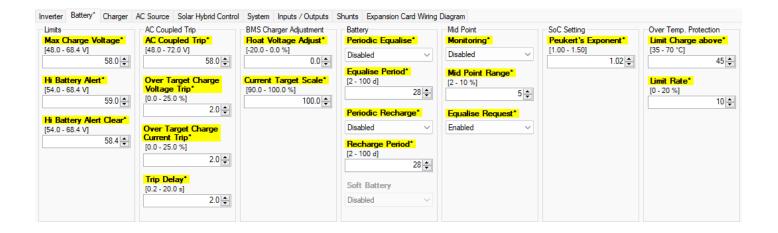
- DC Shutdown
 - o Battery 0% Load 48.0 volts
 - o Battery 100% Load 46.0 volts
 - o Recovery Voltage 50.0 volts
- SoC Shutdown
 - o Enabled
 - 0 10%





Battery Tab

- Limits
 - Max Charge Voltage 58.0 volts
 - o Hi Battery Alert 59 volts
 - Hi Battery Alert Clear 58.4 volts
- AC Coupled Trip
 - AC Coupled Trip 58 volts
 - Over Target Charge Voltage Trip 2.0%
 - Over Target Charge Current Trip 2.0%
 - Trip Delay 2.0 second
- Battery
 - Periodic Equalise Disabled
 - Equalise Period 28 days
 - o Periodic Recharge Disabled
- SoC Setting
 - o Peukert's Exponent 1.02
- Over Temp. Protection
 - Limit Charge above 45 degrees Celsius
 - Limit rate 10%





Charger Menu

- Charge Settings
 - Max. Charge Current 33.3%
 - Initial Return Voltage 56 volts
 - o Initial return SOC 95%
- Initial Stage
 - Voltage 56.8 volts
 - Current 100%
 - Time 1 minute
- Bulk Stage
 - Voltage 57.6 volts
 - Current 100%
 - Time 15 minutes
- Absorption Stage
 - Voltage 57.6 volts
 - Current 15 %
- Absorb-Float Transition
 - Net Change 1%
 - Change Time 15 minutes
 - o Max Time 60 minutes
- Float Stage
 - Voltage 57.2 volts
 - Current 1 %
 - Long Term Voltage 57.2 volts
- Equalise Stage
 - Voltage 57.6 volts
 - o Current 1%
 - Time 1 hour

