

LiFe and Eco Series battery settings for Selectronics SP PRO

Settings listed are only applicable to battery charge and discharge. All other settings are the responsibility of the Integrator.

It is the responsibility of the integrator to have a full understanding of the Selectronic product prior to programming and it is preferred that they have attended the manufacturers training or integration courses should they be available

SoC Control should be used to maintain your warranty obligations.

Note that for full performance of the SP PRO the below table indicates the minimum battery requirements.

Installers should ensure an adequate system design is carried out at all times. PPE accepts no responsibility for underperforming systems designs

As part of our continued improvement process, settings are subject to change without notice and were correct at time of publishing.

The SP PRO has the ability to monitor the battery voltage at the battery terminal and also performs a controlled startup of the SP PRO by current limiting the inverters inrush current during initial turn on.

It is highly recommended that the Pre charge is used for out 24 and 48V batteries, however compulsory when using our 120V batteries.

The table below outline the performance of the SP PRO inverters and the required qty of batteries to achieve the full performance of the SP PRO. The battery qty is not compulsory, however is highly recommended a minimum to reduce possible battery trips due to over current.

Selectronic SP PRO and PPE Battery Table

AC Out	SPMC240	SPMC241	SPMC481	SPMC482	SPMC1201	SPLC1200	SPLC1202	
Surge 30 Seconds	7.5kW	10.5kW	12.0kW	18.0kW	18.0kW	33.0kW	38.0kW	
Continuous	3.0kW	4.5kW	5.0kW	7.5kW	7.5kW	15.0kW	20.0kW	
PPE Batteries	Qty	Qty	Qty	Qty	Qty	Qty	Qty	
LiFe2433P	3	4	-	-	-	-	-	
LiFe4833P	-	-	4	6	-	-	-	
LiFe12033P	-	-	-	-	6	11	12	
EC044840P	-	-	4	6				
Inverter Pre charge/ Battery sense		Optional/Recommended				Required		

The below table outlines settings required for the Selectronic SP PRO to suit PPE LiFe and Eco batteries.

	SP LINK TAB	ECO4840P	LiFe2433P	LiFe4833P	LiFe12033P
Battery Type	Quick Start	Lithium LiFePO4			
Battery Capacity	Quick Start	Total AH capacity of PPE battery bank installed			
Voltage DC Shut Down 0% Load	Inverter	48	24	48	120
Voltage DC Shut Down 100% Load Min 5,000 Cycles	Inverter	46	23	46	115
Recovery Voltage	Inverter	52	26	52	130
Shut Down SoC % (When manual or no generator installed off grid)	Inverter	20	20	20	20
Shut Down SoC% (when Automatic Start Generator installed)	Inverter	10	10	10	10
Shut Down SoC% (when grid connected and Daily Stop SoC set to 20%)	Inverter	10	10	10	10
Max Voltage Limit, Min 5,000 Cycles	Battery	56	28	56	140
High Battery Alert Voltage	Battery	60	30	60	150
High Battery Alert Clear Voltage	Battery	57.7	28.8	57.7	144.2
Periodic Equalise	Battery	N/A Disable			
Periodic Recharge	Battery	14 to 28 Days			
Peukert's Exponent	Battery	1.02			
Max Charge Current % or Amps	Charger	50% or C2 of total battery Capacity			
Initial Return Voltage	Charger	52.9	26.5	52.9	132.20
Initial Stage Voltage	Charger	56	28	56	140
Initial Stage Current	Charger	100%			
Initial Stage Time	Charger	1 min			
Bulk Stage Voltage	Charger	56	28	56	140
Bulk Stage Current	Charger	100%			
Bulk Stage Time	Charger	1 min			
Absorb Stage Voltage	Charger	56	28	56	140
Absorb Stage Current	Charger	100%			
Absorb-Float Transition Net Change	Charger	1%			
Absorb-Float Transition Change Time	Charger	90min			
Absorb-Float Max Time	Charger	180min			
Float Stage Voltage	Charger	55.2	27.6	55.2	138
Long Term Float Voltage	Charger	55.2	27.6	55.2	138
Equalise Stage Voltage	Charger	N/A Disabled			
Min Temp Compensation °C	Charger	0			
Max Temp Compensation °C	Charger	49			
Ref A Temp Compensation mV/cell/°C	Charger	0			
Ref B Temp Compensation mV/cell/°C	Charger	0			
Limit Charge Above °C	Battery	44			
Limit Rate %	Battery	20			