

# LiFe and Eco Series Battery Settings for Schneider Products



## OVERVIEW

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 Schneider products prior to programming and it is preferred that they have attended the manufacturer's training or integration course should they be available.

### SoC Drift

State of Charge (SoC) drift happens when the product that is calculating SoC builds up an accumulative error. This error is generally due to tolerance of components that measure voltage and current, and algorithms used to calculate the SoC. Most products will reset its accumulative error when the system gets to 100% SoC or float.

It is important that a well-designed battery storage system reaches float stage as regularly as possible, preferably every one to two days to reset SoC drift.

### SoC drift can be addressed in many ways.

Examples:

1. Sufficient solar sized to charge batteries to float on the winter equinox
2. Backup source installed (grid or generator) to allow charging of batteries during extended bad weather or high load events

### How many batteries do I need?

The table below outlines the required quantity of batteries to achieve the full performance of the SW and XW Inverter. The battery quantity is not compulsory, however it's highly recommended as a minimum to reduce possible battery trips due to over current.

*Always consult and read the manufactures documentation before designing, installing and programming their devices.*

## Recommended Minimum Battery Modules for Schneider Products

	LiFe2433P	LiFe4833P	LiFe4838P	Eco4840P
Connex SW4024	5			
Connex SW4048 (7kW)		3	3	2
Connx SW8548		4	4	3
Connex XW+ 7048		3	3	3
Connex XW+ 8548		4	4	3
Connex XW PRO 8548		4	4	3

## Schneider Connex SW, XW+ and XW PRO Settings

	LiFe2433P	LiFe4833P	LiFe4838P	Eco4840P
<b>Inverter Settings</b>				
Low Battery – Cut Out Voltage	24V 0% SoC 24.75V 10% SoC 25.10 20% SoC		48V 0% SoC 49.50V 10% SoC 50.20V 20% SoC	
LBCO Delay	5 Seconds			
LBCO Hysteresis	1V		2V	
High Batt Cut Out	29.1V	60V	58.4V	60V
Search Watts	If Unknown Leave Default			
Search Delay	If Unknown Leave Default			

	LiFe2433P	LiFe4833P	LiFe4838P	Eco4840P
<b>Charger Settings – Custom Settings</b>				
Battery Type	Lithium-ion			
Control	3 Stage			
Bulk Voltage	28.8V	57.6V	56.4V	57.6V
MaxBulkCurrent	Max – 0.5 (C2) – 50% of Total Ah Capacity Installed			
Absorb Voltage	28.8V	57.6V	56.4V	57.6V
MaxAbsCurrent	Max – 0.5 (C2) – 50% of Total Ah Vapacity Installed			
Float Voltage Standby (Short Term Float) (Example Solar Application)	28.8V	57.6V	56.4V	57.6V
Float Voltage Standby (Long Term Float) (Example UPS Application)	27.2V to 28V	54.4V to 56V	55.8V	54.4V to 56V
MaxFloatCurrent	Max – 0.5 (C2) – 50% of Total Ah Capacity Installed			
DisChglmax	100%			
DisChglmax Time	300Sec			
<b>Charger Settings</b>				
Battery Capacity	Total Ah Capacity of PowerPlus Energy Battery Bank Installed			
Max Charge Rate	Max – 0.5 (C2) – 50% of Total Ah Capacity Installed			
Battery Default Temp	Warm			
Recharge Volts	25.5V	51V		
Absorb Time	4 Hours		2 Hours	4 Hours
Chg Block Start	Leave Default			
Chrg Block Stop	Leave Default			

Schneider Connex MPPT 80 600

	LiFe2433P	LiFe4833P	LiFe4838P	Eco4840P
<b>Setup</b>				
Equalise Activate	Stop			
<b>Advanced Settings - Multi Unit Config &gt; Connections</b>				
DC Conn	BattBank1			
<b>Advanced Settings &gt; Charger Settings</b>				
Batt Voltage	24V	48V		
Batt Type	Custom			
Batt Capacity	Total Ah Capacity of PowerPlus Energy Battery Bank Installed			
Mac Chg Rate	50%			
Recharge Volts	26.5V	52.9V		
Absorb Time	180min		120min	180min
Dflt Battery Temp	Warm			
Charge Cycles	3 Stage			
<b>Setup</b>				
Force Chg	Bulk			
<b>Setup &gt; Meters</b>				
Batt Temp	N/A			
Equalise Support	Disabled			
Equalise Voltage	28.8V	57.6V	56.4V	57.6V
Bulk Volatge	28.8V	57.6V	56.4V	57.6V
Absorb Voltage	28.8V	57.6V	56.4V	57.6V
Float Voltage Cyclic (Short Term Float) (Example Solar Application)	28.8V	57.6V	56.4V	57.6V
Float Voltage Standby (Long Term Float) (Example UPS Application)	27.2V to 28V	54.4V to 56V	55.8V	54.4V to 56V

## Schneider Connex MPPT 60 150

	LiFe2433P	LiFe4833P	LiFe4838P	Eco4840P
<b>Battery Menu</b>				
Equalise Activate	Stop			
Equalisation Reminder	0 Days			
Battery Bank 1	1			
Battery Voltage	24V	48V		
Battery Type	Custom			
Capacity Limit	Total Ah Capacity of PowerPlus Energy Battery Bank Installed			
Recharge Volts	26.5V	52.9V		
Max Absorb Time	180min		120min	180min
Force State bulk	Bulk			
Dflt Battery Temp	Warm			
Charge Cycles	3 Stage			
<b>Custom Settings</b>				
Equalise Support	Off			
Equalise Voltage	28.8V	57.6V	56.4V	57.6V
Bulk Voltage	28.8V	57.6V	56.4V	57.6V
Absorb Voltage	28.8V	57.6V	56.4V	57.6V
Float Voltage Cyclic (Short Term Float) (Example Solar Application)	28.8V	57.6V	56.4V	57.6V
Float Voltage Standby (Long Term Float) (Example UPS Application)	27.2V to 28V	54.4V to 56V	55.8V	54.4V to 56V

Installers should ensure an adequate system design is carried out at all times. PPE accepts no responsibility for underperforming system designs. As part of our continued improvement process, settings are subject to change without notice and are correct at time of publishing.