LiFe 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 Schnieder 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.

Please Note: These settings are for LiFe4838P batteries with serials after LXXXX6000 only, please contact PowerPlus Energy support for legacy settings.

LiFe4838P batteries with serials prior to LXXXX6000 are not compatible with LiFe4838P batteries with serials after LXXXX6000.

Recommended Minimum Battery Modules for Schneider Products

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

Schneider Connex SW, XW+ and XW PRO Settings

	LiFe2433P	LiFe4833P	LiFe4838P
	Inverter Settings		
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	57V
Search Watts	If Unknown Leave Default		
Search Delay	If Unknown Leave Default		

	LiFe2433P	LiFe4833P	LiFe4838P
	Charger Settings – Custom Settings		
Battery Type	Lithium-ion		
Control	3 Stage		
Bulk Voltage	28.8V	57.6V	55.7V
MaxBulkCurrent	Max – 0.5 (C2) – 50% of Total Ah Capacity Installed		
Absorb Voltage	28.8V	57.6V	55.7V
MaxAbsCurrent	Max – 0.5 (C2) – 50% of Total Ah Vapacity Installed		
Float Voltage Standby (Short Term Float) (Example Solar Application)	28.8V	57.6V	55.7V
Float Voltage Standby (Long Term Float) (Example UPS Application)	27.2V to 28V	54.4V to 56V	55.5V
MaxFloatCurrent	Max – 0.5 (C2) – 50% of Total Ah Capacity Installed		
DisChgImax	100%		
DisChgImax Time	300Sec		
	Charger Settings		
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
Chg Block Start	Leave Default		
Chrg Block Stop	Leave Default		

Schneider Connex MPPT 80 600

	LiFe2433P	LiFe4833P	LiFe4838P
	Setup		
Equalise Activate	Stop		
	Advanced Settings - Multi Unit Config > Connections		
DC Conn	BattBank1		
	Advanced Settings > Charger Settings		
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
Dflt Battery Temp	Warm		
Charge Cycles	3 Stage		
	Setup		
Force Chg	Bulk		
	Setup > Meters		
Batt Temp	N/A		
Equalise Support	Disabled		
Equalise Voltage	28.8V	57.6V	55.7V
Bulk Volatge	28.8V	57.6V	55.7V
Absorb Voltage	28.8V	57.6V	55.7V
Float Voltage Cyclic (Short Term Float) (Example Solar Application)	28.8V	57.6V	55.7V
Float Voltage Standby (Long Term Float) (Example UPS Application)	27.2V to 28V	54.4V to 56V	55.5V

Schneider Connex MPPT 60 150

	LiFe2433P	LiFe4833P	LiFe4838P
Battery Menu			
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
Force State bulk	Bulk		
Dflt Battery Temp	Warm		
Charge Cycles	3 Stage		
Custom Settings			
Equalise Support	Off		
Equalise Voltage	28.8V	57.6V	55.7V
Bulk Voltage	28.8V	57.6V	55.7V
Absorb Voltage	28.8V	57.6V	55.7V
Float Voltage Cyclic (Short Term Float) (Example Solar Application)	28.8V	57.6V	55.7V
Float Voltage Standby (Long Term Float) (Example UPS Application)	27.2V to 28V	54.4V to 56V	55.5V

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.