



## How To Set Up Fortress Power Lithium Batteries Using Schneider Equipment

This guide covers the recommended set up and configuration of Schneider equipment for optimizing performance with Fortress LFP batteries. More information on Fortress products can be found on our website: [www.fortresspower.com](http://www.fortresspower.com)

### Inverter/Charger Settings

Parameter Setting for Fortress LFP-10 & 15 battery with Schneider Conext XW+ Inverter

Advanced Setting > Inverter Settings		
	80% DoD, 6000 cycles	90% DoD, 3000 cycles
Low Battery Cut Out Voltage	48V (50.7V recommended)	48 V (48.4V recommended)
LBCO Hysteresis	2.0 V	
LBCO Delay	10 Sec	
High Battery Cut Out Voltage	58 V	
Search Watts	Default	
Search Delay	Default	
Charger Setting > Custom Setting		
Battery Type	Lithium Ion	
Control	2StgNoFloat	
Bulk Voltage	55.4 V	57.6 V
MaxBulkCurrent	100A per battery	50A per battery
Max Discharge Current	100 A	100 A
Max Discharge Timer	10 Minutes	
Battery Capacity	LFP-10: 200A / LFP-15: 300A per battery	
Max Charge Rate	LFP-10: 25% (50A per battery) LFP-15: 17% (50A per battery)	LFP-10: 50% (100A per battery) LFP-15: 33% (100A per battery)
Default Battery Temperature	Warm	
Recharge Volts	50.5 V	
Absorb Time	6 Minutes	
Charge Block Start	Default	
Charge Block Stop	Default	



Please reassess capacity and charge/discharge current settings, when Fortress battery quantities change.



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### MPPT Charge Controller Settings

In a DC coupled system, solar controller(s) must be used to regulate the PV power and charge the batteries. Schneider offers two different MPPT Charge controller that are compatible with PHI batteries.

#### Parameter Setting for Fortress LFP-10 & 15 battery with Schneider XW+ MPPT 60/80

Advanced Setting > Charger Setting		
Battery Type	Custom	
Custom Setting		
	80% DoD, 6000 cycles	90% DoD, 3000 cycles
EqLz Support	Disable	
Bulk Voltage	55.4 V	57.6 V
Absorb Voltage	55.4 V	57.6 V
Float Voltage	54.4 V	
Battery Temperature Compensation	0mV/C	
Battery Capacity	LFP-10: 200A / LFP-15: 300A per battery	
Max Charge Rate	LFP-10: 25% (50A per battery) LFP-15: 17% (50A per battery)	LFP-10: 50% (100A per battery) LFP-15: 33% (100A per battery)
Charge Cycle	Warm	
Recharge Volts	50.5 V	
Absorb Time	6 Minutes	
Default Battery Temperature	Warm	
Battery Voltage (Auto-detected)	48V	
Aux Settings		
...	Default	



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### Conext Battery Monitoring Settings

The Schneider Conext Battery Monitoring provides a more accurate state of Charge (SOC) reading for Fortress LFP batteries.

#### Parameter Setting for Fortress LFP-10 & 15 battery with Schneider Conext Battery Monitor

Setting	Value
Capacity	LFP-10: 200A / LFP-15: 300A per battery
Discharge Rate	20 Hrs
Nominal Temperature	68 (20 °C)
Shunt Amps	500
Shunt mV	50
Self Discharge	1%/Month
Discharge Floor	20%
Float Voltage	54.0
Float Amps	2 %
Auto Sync Time	240 Sec
Temperature Unit	Celsius
Back Light Timer	30 Sec
Peukert Expo	1.05
Charge Eff Mode	Automatic
Temp Coefficient	0.5 % Ah/degree C
Default Temperature	77 F (25 °C)
Sync Sensitivity	5
Time Rem Filter	Faster



**Please reassess capacity and charge/discharge current settings, when Fortress battery quantities change.**

We appreciate your business. Should you have any questions, please don't be hesitate to contact us!

Warm regards,

Fortress team