



How To Set Up Fortress Power Lithium Batteries Using SMA SI4548-6048-US

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

Inverter/Charger Settings

Parameter Setting for Fortress LFP-10 & 15 battery with SMA Sunny Island SI 4548-6048-US

Battery Settings (220 #)			
No.	Name	Description	Value
01	BatTyp	Battery type	VRLA
02	BatCpyNom	Nominal battery capacity	LFP-10: 200 A / LFP-15: 300Ah per battery
03	BatVtgNom	Nominal battery voltage	48V
04	BatTmpMax	Max. Battery Temperature	113 F (45 °C)
05	BatTmpStr	Battery start temp. following stop due to overtemperature	118 F (45 °C)
06	BatWirRes	Power resistor of the battery connection in mOhm	-
07	BatFanTmpStr	Starting Temperature for the "BatFan" function	104 F (40 °C)
Battery Settings (220 #)			
No.	Name	Description	Value
01	BatChrgCurMax	Charging Current of the battery	90A
02	AptTmBoost	Absorption time for normal charge	6 Min
03	AptTmFul	Absorption time for full charge	1 H
04	AptTmEqu	Absorption time for equalization charge	1H
05	CycTmFul	Cycle Time of full charge	180 Days
06	CycTmEqu	Equalization charge cycle time	365 Days
07	ChrgVtgBoost	Cell Voltage setpoint for normal charge	2.31 V
08	ChrgVtgFul	Cell voltage setpoint for full charge	2.31V
09	ChrgVtgEqu	Cell voltage setpoint for equalization charge	2.31V



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10	ChrgVtgFlo	Cell Voltage setpoint for float charge	2.27V
11	BatTmpCps	Battery Temperature compensation	0
12	AutoEquChrgEna	Automatic Equalization charge	Disable
BMS Mode Basic / Off			
No.	Name	Description	Value
01	BatChrgVtgMan	Manual Setpoint of the battery charging voltage with disabled battery management in V	55.4V
02	BatDiChgVtg	Minimum charging voltage of the battery	50.7V
03	BatDiChgVtgStr	Start voltage after undervoltage detection	51.0V
04	BatRes	Internal Resistance of the battery	0 mOhm



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,

The Fortress Power team