SOLAR CONFIGURATION SETTINGS:

Sol-Ark
LIMITLESS POWER

Battery Setup Settings

Battery Capacity:	Bank Ah
Max A Charge:	Up to 25% of bank Ah*
Max A Discharge:	Up to 200% of bank Ah***
TEMPCO:	-4mV/C/Cell
Use Battery Voltage Charged:	Unchecked
Use Battery % Charged:	Checked
Float Voltage:	13.7V/27.3V/54.6V**
Absorption Voltage:	14.7V/29.4V/58.8V**
Equalization Voltage:	14.7V/29.4V/58.8V**

Days:	30 Days
Hours:	0.0 Hours
Gen Charge:	Dependent on system, consult solar installer
Grid Charge:	Dependent on system, consult solar installer
Shutdown Voltage:	11.6V/23.2V/46.4V** (20%)
Low Battery:	11.8V/23.6V/47.2V** (30%)
Restart:	12.4V/24.8V/49.6V** (40%)
Battery Charge Efficiency:	94.0%
Battery Empty Voltage:	11.5V/23.0V/46.0V**

* - Exception to current limit for DC400-6 on the external threaded stud, 80A max.

** - 12V/24V/48V systems, respectively

*** - We do not recommend more than 300A for most systems, roughly 14kW draw.

Note: We do not recommend equalizing AGM batteries, these settings are set to avoid accidental equalization cycles. For Battery Resistance, please consult spec sheet for battery, then multiply total units in bank.

Notes:

FULLRIVER BATTERY

SOLAR CONFIGURATION SETTINGS:

GENERIC SETTINGS

Bulk Voltage:	14.7V/29.4V/58.8V**
Absorption Voltage:	14.7V/29.4V/58.8V**
Float Voltage :	13.7V/27.3V/54.6V**
Absorption Time :	See Formula for Time Calculation
Float Time:	Unlimited
Current Limit:	Up to 25% of bank Ah*
Tail Current/Absorb End Amps/Ending Amps:	1.75% of bank AH
Temperature Compensation:	-4mV/°C/Cell
Equalization Voltage :	14.7V/29.4V/58.8V**
Equalization Time:	0 Hrs
Equalization :	Disabled
Time Calculation Formula:	[(AH * DOD) / Charge Amps * 0.85] = Time in Hours, typically 2-3, max 4.

Note: We do not recommend equalizing AGM batteries, these settings are set to avoid accidental equalization cycles.
* - Exception to current limit for DC400-6 on the external threaded stud, 80A max.
** - 12V/24V/48V systems, respectively

48V LBCO Guidelines based on ~25% DOD (Voltage vs expected load in kW)

DC400-6 (1 String)	DC1150-2 (1 String)	DC400-6 (2 Strings)	DC1150-2 (2 Strings)
49.6V - 1.0kW	50.4V - 2.9kW	49.6V - 2.0kW	50.4V - 5.8kW
48.8V - 1.9kW	49.6V - 5.2kW	48.8V - 3.8kW	49.6V - 10.4kW
48.0V - 3.3kW	48.8V - 9.3kW	48.0V - 6.6kW	48.0V - 34.2kW
47.2V - 5.5kW	48.0V - 17.1kW	47.2V - 11.0kW	

Bank AH Examples

2x DC400-6 in 12V = 400Ah
4x DC400-6 in 12V = 800Ah
4x DC400-6 in 24V = 400Ah
8x DC400-6 in 24V = 800Ah
8x DC400-6 in 48V = 400Ah
16x DC400-6 in 48V = 800Ah
24x DC400-6 in 48V = 1200Ah

6x DC1150-2 in 12V = 1150Ah
12x DC1250-2 in 12V = 2300Ah
12x DC1150-2 in 24V = 1150Ah
24x DC1150-2 in 24V = 2300Ah
24x DC1150-2 in 48V = 1150Ah
48x DC1150-2 in 48V = 2300Ah
72x DC1150-2 in 48V = 3450Ah

AGS Settings

24 Hr - LBCO + 1.0V
2 Hr - LBCO + 0.5V
2 Min - LBCO + 0.2V
30 Sec - LBCO + 0.1V

These guidelines are estimates based off of average voltages observed in our testing and may vary slightly from one production batch to another. The numbers represent discharging at 77F/25C, and can vary greatly with the known impacts of ambient temperature differences. If you are unsure of any settings listed in this sheet, please consult a certified solar installer.