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AGM/Gel Battery Important information & Axpert Inverter Settings

- The Sun Pays AGM/Gel batteries has the following maximum charge currents:
 - 100 AH Battery : 25.0 A
 - 150 AH Battery : 37.5 A
 - 200 AH Battery : 46.3 A
- In order to ensure optimal battery life, set the inverter / charge controller charge current not to exceed the maximum charge current. It is recommended to set it at 5 amps lower than the maximum charge current of the battery.
- For batteries connected in series, the maximum charge current will still be the same as for a single battery! Hence, for 4x 200AH batteries connected in series to obtain 48V, the maximum charge current is still 46.3A! The charge current can be increased if parallel (or more) sets is connected in series (ie. 8x, 12x, 16x etc batteries).
- The battery life expectancy is strongly dependant on the depth of discharge (DoD) of the battery. A DoD of 50% is recommended for the battery to obtain at least 1000 cycles. The 50% DoD voltage is 49.2 V
- Utility/generator will only charge the batteries if the battery voltage is below setting 12 value.

The following settings can be used on the Axpert inverters for TSP AGM/Gel batteries:

Setting Description	Value	TSP 4kW /5kW – Menu Item No.	Sacolar / Growatt– Menu Item No.
Discharge Priority	SBU	01	01
Total Charge Current	[4x 100AH Batteries in series] - 10 Amp [4x 150AH Batteries in series] - 20 Amp [4x 200AH Batteries in series] - 20 Amp [8x 100AH Batteries; 2 parallel, 4 in series] - 20 Amp [8x 150AH Batteries; 2 parallel, 4 in series] - 40 Amp [8x 200AH Batteries; 2 parallel, 4 in series] - 50 Amp	02	02
Battery Type	USE	05	05
Back to Utility	49.0 V (if generator is used, set to 51V)	12	12
Back to Battery	54V (if generator is used, set to 52V)	13	13
Charge Priority	SnU	16	14
Charge Voltage	56.4V	26	19
Floating Voltage	55.2V	27	20
Battery Cut-off	48V (Alarm will sound from 49V)	29	21

For more information on warranty conditions, please visit : <https://shop.thesunpays.co.za/pages/product-warranty>