

# AA Solar and SunPowerPlus

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## **AA CHAMPION Lithium Iron Phosphate Yttrium Battery Limited Warranty Conditions**

1. The batteries must be installed to a proper electrical standard for low voltage, high amperage service, and the capacity of the battery, and in a location where the average temperature is less than 35 degrees C. The capacity of the batteries chosen must be appropriate for the service intended. I.E. **MAXIMUM or LESS average discharge in normal usage of 70% maximum depth of discharge, 50% recommended. If the batteries have been over discharged (>80%) then the batteries must not be recharged until AA Solar has been contacted. Warranty may be void otherwise.**
2. The batteries must be charged in cyclic service with the following regimen:  
A 3 step charging regimen: Bulk, Absorption and float.
  - a. Bulk charge up to **3.65 VDC per cell (14.6 VDC 12 VDC system, 29.2VD C 24 VDC system).**
  - b. **ABSORPTION** time, 1 hour for every 200 amp hour capacity **USED PER CYCLE.**
  - c. Float charge **3.43 VDC per cell (13.7 VDC 12 VDC system, 27.4 VDC 24 VDC system) ALL at 20 DEGREES C.**
3. Batteries charged in standby service are charged at 3.43 VDC per cell at 20 degrees C system, 27.4 VDC 24 VDC system), and once a month charged at **3.8 VDC per cell at the C/20 rate for 5 hours (15.2 VDC 12 VDC system, 30.4 VDC 24 VDC system).**
4. The charger must have less than 3% AC ripple in all modes. Either switch-mode type or well filtered transformer rectifier type, voltage regulated.
5. Warranty for 12, 24 or 48 VDC batteries is **10 years pro rata on 120 months.** First year, full replacement if battery fails under warranty conditions and pro rata for a further **9 years** based on 120 months and the recommended retail price at the time of warranty claim including GST.
6. Full warranty applies if used on true sine wave inverters. If used on modified sine wave or square wave type inverters the warranty is 5 years pro rata.
7. All batteries for WARRANTY CLAIMS must be returned to AA Solar Ltd.
8. No further or other warranties are implied or given and no liability is accepted for any consequential damages for any reason. The total liability or warrantee claimed is limited to no more than the sum of the original amount paid for the battery or batteries only, and does not cover any cost of freight, installation or removal what so ever.
9. A reliable Battery Monitor must be installed and calibrated in the system that gives accurate Charge/Discharge in amp/hours, State of Charge and History for the batteries. If during any warranty claim the battery monitor is found not to be set up and calibrated properly with all parameters set, or history has been reset, all warranties are null and void.
10. The use of Battery Temperature Sensors when the batteries are used in conjunction with solar Modules/solar regulator and/or inverter/charger units, is strongly recommended for more accurate battery charging.
11. Warranty limited to original purchaser only and is non transferrable.
12. All warranty claims must be accompanied with original invoice or a copy.
13. Warranty limited to non-commercial applications. 1 year Pro-rata warranty only for commercial applications.