

AA Solar and SunPowerPlus

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Lithium Iron Phosphate Battery Limited Warranty Conditions

1. Your 12, 24 or 48 VDC Lithium batteries come with a 10 year pro-rata conditional warranty. In the first year the battery will be fully replaced if the battery fails to meet the manufacturers specifications and the warranty conditions have been met. Thereafter the warranty will be prorated over the remaining 108 months calculated on the current market retail price at the time of warranty claim including GST.
2. If the batteries are not installed by AA Solar they must be installed to a proper electrical standard by a competent person for extra low voltage high amperage applications and in accordance with current regulations for the specific installation. AA Solar does not accept any liability for installations performed by third parties.
3. The battery must be installed in a location where the average temperature is less than 35 degrees C and remains within manufacturer specified operating temperature range.
4. The warranty is void if batteries are charged when the ambient temperature is at or below 0 degrees C.
5. The capacity and the use of the batteries chosen must be appropriate for the load and service intended.
6. The maximum discharge of the batteries in normal usage must be set to 70% maximum depth of discharge (dod), although 50% dod is recommended to maximise longevity. 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.
7. The batteries must be charged in cyclic service with the following 3 step charging regime:
 - a. **Bulk** charge up to 3.65 VDC per cell (14.6 VDC 12 VDC system, 29.2VDC 24 VDC system)
 - b. **Absorption** time, 1 hour for every 200 amp hour capacity USED PER CYCLE.
 - c. **Float** charge up to 3.43 VDC per cell (13.7 VDC 12 VDC system, 27.4 VDC 24 VDC system).
8. Batteries charged in **standby** service are charged at up to 3.43 VDC per cell (13.7 VDC 12 VDC system, 27.4 VDC 24 VDC system).
9. Chargers that have not been installed by AA Solar must have less than 3% AC ripple in all modes. Either switch-mode type or well filtered transformer rectifier type, voltage regulated.
10. Full warranty applies only if used with inverters that produce true sine wave. If modified sine wave or square wave type inverters are used the warranty is reduced to 5 years pro rata.
11. All batteries must be returned to AA Solar or an approved rep at the customers expense.
12. No further liability or warranties are implied or given and no liability is accepted for any consequential damages for any reason. The total liability or warranty 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.
13. Unless it is an AA Solar supplied and fitted Battery monitor and or Battery Management System (BMS) a reliable lithium BMS and or Battery monitor must be installed and calibrated in the system that balances each cell in accordance with the manufacturers specifications and gives accurate Charge/Discharge in amp/hours, State of Charge and records the history of the same for the batteries. If during any warranty claim the Battery Monitor and or BMS is found not to be set up and calibrated properly with all parameters set, or history has been reset or not recorded, all warranties are null and void.
14. It is strongly recommended that Battery Temperature Sensors are used in conjunction with solar Modules/solar regulator and/or inverter/charger units, for more accurate battery charging.
15. Warranty is limited to the original purchaser only and is non transferrable.
16. All warranty claims must be accompanied with the original invoice or a copy of the same.
17. The warranty is limited to non-commercial applications. 1 year Pro-rata warranty only for commercial applications.
18. Battery failure means the battery ceases to operate within the normal operating parameters as specified in the manufacturers documentation.
19. The warranty is void if the battery is used with loads or in a system or with parameters for which the batteries are not designed.
20. The warranty is void if the battery failure is due to faulty equipment or equipment settings or due to accidental or deliberate damage to the battery. It is the customers responsibility to ensure the equipment is operating as intended.
21. All parameters in this warranty are stated for 20 degree C.