

# freedom WON

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Directors: AJ English; AC Nobbs; MD Kelleher; K Chan | Reg. No: 2012/102270/07 | VAT. No: 443 026 7486

## Freedom Won 12V Battery Guarantee

The range of Freedom Won lithium iron phosphate 12V General Purpose batteries is supported by an extensive product guarantee, which is backed by Freedom Won (Pty) Ltd.

This warranty covers the following 12V LiFePO4 battery models:

- 7.5Ah
- 10Ah
- 20Ah
- 40Ah
- 100Ah
- 200Ah

Freedom Won guarantees that the service life of the Freedom Won 12V battery will achieve at least a 5-year service life in any application for which it is intended without loss in performance exceeding that described below:

- Performance guarantee = the battery is guaranteed to retain more than 70% of its new capacity after 5 years and that it will still be able to meet the maximum current levels as stipulated on the data sheet.

The capacity test to determine a unit's residual capacity will be done by a complete discharge from 100% (14.2V). The discharge test shall be done at a current equal to or less than 30% of the Ah rating, eg:

- Amperes during discharge test =  $0.30 \times \text{Ah rating}$

*Example for Freedom Won 12V 100Ah*

- Amperes during discharge test =  $0.30 \times 100 = 30 \text{ Amps}$

A suitable application is defined as any application that:

1. meets the maximum current criteria of the battery in charge and discharge
2. provides for a maximum of one discharge cycle per day to an average maximum of 80% depth of discharge (20% State of Charge (SoC))
3. ensures that a discharge of 100% DoD (0% SoC) is not exercised more than thrice per week
4. Provides for an ambient operating temperature as defined below
5. Provides for vibration levels of a moderate nature, which would be like that experienced on board a vehicle on rough roads
6. Provides for an environment without aggressive corrosion catalysts or is at least cleaned off regularly with fresh water and a sponge should this exposure occur

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7. Complies with the requirements and recommendations outlined in Installation and User's manual.

The Freedom Won 12V batteries should not be operated in a location that regularly experiences extended periods of ambient temperatures above 45 degrees Celsius or below zero degrees Celsius. The extreme ambient operating range is -20 to +60 degrees Celsius. In terms of the warranty the battery may not be charged below 0°C or discharged below -20°C. Evidence or reasonable suspicion of the following temperature related operation will void the warranty:

- Storage below -20°C
- Storage above 35°C
- Charge below 0°C
- Charge above 40°C except for short durations in under bonnet applications
- Discharge above 50°C except for short durations in under bonnet applications

The 12V battery should also be installed away from direct sunlight, precipitation, extreme moisture, and sea spray.

If the 12V battery is installed in a small room with inverters and charge controllers it may be necessary to install an extraction fan to extract the heat from the inverters and charge controllers.

Should a Freedom Won 12V battery be found unable to produce 70% of its 'as new capacity' in kWh prior to the expiring of the 5-year service life, Freedom Won undertakes **to replace the battery free of charge** with a suitable replacement unit to ensure that the performance objective continues to be met for the balance of the original 5 years.

The capacity of the battery will be confirmed using kWh readings taken from any suitable inverter or meter.

The warranty covers only replacement of the unit with a new unit ex works Freedom Won, provided that the defective unit is delivered to Freedom Won beforehand for assessment. Removal, packaging, reinstallation, and shipping is excluded.

A suspected underperforming battery must be received by Freedom Won before the warranty period has elapsed.

If the battery casing is damaged or compromised in any way or there is other evidence of tampering or abuse the guarantee becomes void.

The warranty is also only valid if the Lite and all associated charges such as delivery costs is fully paid for by the purchaser or if necessary, directly by the owner within 60 days of the final amount becoming due.

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The guarantee period begins at the date of the final invoice, which shall include reference to the serial number of the battery as depicted on the warranty seal.

Thus confirmed by signature



Antony John English

Director and Co-Founder

Freedom Won Pty Ltd