



COREVA 5 and SOLVA Range Product Guarantee

Lithium Iron Phosphate (LiFePO4) Battery Energy Storage Systems – COREVA 5 (5 MWh Liquid Cooled Container) and SOLVA Range (Outdoor Rated Liquid Cooled Cabinets)

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Key Points

Products covered	COREVA 5 (6 m containerised BESS); SOLVA AC261, SOLVA DC261, SOLVA AC418, SOLVA DC418
Rated energy capacity (new) – COREVA 5	5 015 kWh
Rated energy capacity (new) – SOLVA range	AC261/DC261 - 261 kWh; AC418/DC418 - 418 kWh
Standard warranty term	5 years, or 8 000 charge-discharge cycles - whichever occurs first
Extended warranty	Up to 10 years available at additional cost; longer terms via project-specific SLA
End-of-life performance threshold	70% of rated new capacity
Post-warranty support	Available for up to 15 years from date of initial purchase

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1. Overview and Scope

The COREVA 5, SOLVA AC261, SOLVA DC261, SOLVA AC418, and SOLVA DC418 are the primary Lithium Iron Phosphate (LiFePO₄) based Battery Energy Storage System (BESS) products offered by Freedom Won for the commercial, industrial, and utility sectors. They are supported by a product guarantee as fully described in this document.

In further detail, the models covered by this guarantee are:

- COREVA 5 – a six-metre containerised BESS with an energy capacity when new of at least 5 015 kWh.
- SOLVA AC261 – an AC-coupled BESS cabinet integrating a 125kW PCS with 261kWh of battery capacity
- SOLVA DC261 – a DC-coupled BESS designed for externally mounted battery inverters also with a battery capacity of 261kWh.
- SOLVA AC418 – an AC-coupled BESS cabinet integrating a 215kW PCS with 418kWh of battery capacity
- SOLVA DC418 – a DC-coupled BESS designed for externally connected battery inverters also with a battery capacity of 418kWh

The COREVA 5, SOLVA AC261, SOLVA DC261, SOLVA AC418, and SOLVA DC418 are collectively referred to in this document as the “Product”. References to the Product apply equally to each model, except where a provision expressly refers to a specific model or its technical specifications (such as rated capacity or worked calculation examples), which are noted as such.

2. Warranty Term

Subject to the provisions in this document, Freedom Won guarantees the Product for five years or for a service of at least 8 000 charge-discharge cycles, whichever event should first occur.

A warranty duration extension is available that extends the warranty period to 10 years at additional cost. Even longer duration extensions are available on a per-project basis based on the implementation of a Service Level Agreement (SLA) with Freedom Won.

3. Performance Warranty and Cycle Life

The battery is defined as satisfactorily achieving the guaranteed service duration or duty if it is still able to produce 70% or more of the model's stated new capacity in kWh from a complete discharge. The discharge test of an individual battery shall be done at a power equal to or less than 20% of the capacity rating, e.g.

$$\text{Power during discharge test} = 0.20 \times 5\,015 \text{ kWh} = 1\,003 \text{ kW}$$

The integrated Battery Management System (BMS) records the number of cycles that have been completed by the battery, where one complete cycle in terms of this warranty is a discharge from 100% State of Charge (SoC) to 20% SoC – equivalent to 80% Depth of Discharge (DoD) – followed by a charge again to 100% SoC. Discharges deeper than 80% DoD, and shallower than 80% DoD, are also counted into the total number of warranty cycles on a pro rata basis.

The Product is to be configured to prevent ordinary discharge below 90% DoD. Regular discharge below 10% SoC is not recommended.

4. Operating and Storage Conditions

The Product is liquid cooled, and hence may operate in hot or cold environments – however the ambient temperature extremes provided in the operating manual must be observed to maintain the warranty.

Under this warranty the Product may not be operated outside of the operating manual power and time limitations that could result in high cell temperatures. The following temperature-related exposure will void the warranty:

- If the battery is stored for any amount of time without the integrated chiller/heater being in operation in ambient temperatures below -20C or above 45C;
- If the battery is stored for more than three months without the integrated chiller/heater being in operation in ambient temperatures below 0C or above 30C;
- If the battery is operated to such an extreme duty that causes the cell temperatures to exceed 35C for more than 4 hours per day on average.

Note: The integrated liquid cooling system is designed to keep the cells below 35C while operating under normal duty conditions.

The Product may not be stored for longer than 12 months without being fully cycled and float charged at least once during the 12-month period. Longer storage without a charge-discharge cycle will void the warranty.

5. Non-Cell Component Warranty

In addition to the performance-related warranties applicable to the battery cells, Freedom Won warrants that all other non-cell components forming part of the Product (including, in the case of the COREVA 5, the container itself and in the case of the SOLVA models, the cabinet itself) will be free from defects in materials and workmanship for a period of five years from the commencement of the warranty period.

Subject to the exclusions set out in this warranty, Freedom Won will repair or replace, at no charge, any such non-cell component that fails or is defective during the warranty period, provided that the failure is not attributable to improper installation, misuse, abuse, negligence, unauthorised modification, or operation outside the specified parameters.

6. Warranty Validity Conditions

6.1 Installation, Transport and Operation

The warranty is only valid and applicable if the Product was transported, stored, installed and operated according to the requirements and instructions laid out in the manual.

Installation/commissioning must be performed by a Freedom Won-certified installer.

6.2 Payment

This guarantee is conditional on the purchase price and all associated charges for the Product having been paid in full to Freedom Won (or its authorised distributor, as applicable) by the party who purchased the Product directly from Freedom Won or that distributor. Should such amounts remain outstanding for more than 30 days after the due date, Freedom Won may give written notice requiring payment within a further 14 days, failing which this guarantee will be suspended until payment is made in full.

6.3 External Causes

Damage relating to a lightning strike, surges, or other external causes is not covered by the warranty. Force-majeure events are excluded e.g. fire, flood, earthquake, rodent or pest damage, or damage from a third-party inverter/PCS or EMS incorrectly configured against Freedom Won's interface specification.

6.4 Tampering and Abuse

Any evidence of tampering or abuse of the Product shall cause the warranty to be void.

Repairs, firmware changes, or servicing by anyone other than Freedom Won or an authorised agent will void the warranty.

6.5 Commencement Date

The guarantee period begins at the date of commissioning, provided that this occurs within three months of delivery. If commissioning takes place longer than three months post-delivery, the delivery date plus three months shall become the deemed warranty commencement date.

6.6 Storage and Cycling Maintenance, Relocation, Transferability

The Product may not be stored for longer than 12 months without being cycled and float charged at least once during the 12-month period. Longer storage without a charge-discharge cycle will void the warranty.

Relocation of the Product to a new site after commissioning (re-transport, re-installation, or a change of environmental conditions) is permitted provided that such is carried out by a Freedom Won authorised installer and that Freedom Won is notified in writing of the relocation and provided the new installation details.

The Product warranty is transferable to a new owner provided that Freedom Won is notified of the transfer and provided complete details of the new owner.

7. Remedy and Costs

Should a unit of the Product be found unable to produce 70% of its as new capacity in kWh prior to the 5-year (or extended, as applicable) guaranteed service life, or 8 000 cycles being achieved, Freedom Won undertakes to service the Product to ensure that it thereafter again meets this performance objective. The service may include component replacements with new or used (of similar or lesser age) parts, depending entirely on Freedom Won's discretion.

Travel, transport, shipping of parts, and accommodation that relate to warranty servicing of the Product is not covered by the warranty and will be billed by Freedom Won or supplied by the Product owner or operator. Labour and replacement parts for warranty work will not carry charges by Freedom Won.

Freedom Won accepts no liability for indirect/consequential losses that may occur in relation to the Product's presence, operation, or failure on any site.

8. Making a Warranty Claim

A report of a suspected underperforming Product must be received by Freedom Won for assessment before the warranty period has elapsed or the cycles are exceeded.

To make a claim the owner or operator is required to create a support ticket on the ticketing platform link provided on the Freedom Won website.

A warranty claim for the Product must be accompanied by a proof of purchase that includes the following information amongst other as required by the support channel:

- Seller details (name, address, contact information of the distributor or installer);
- Buyer details (name, address, contact information of owner or installer);
- Address of installation site;
- Date of purchase;
- Product serial number that matches that of the subject battery of the claim.

The absence of such proof of purchase, including the serial number, will invalidate a warranty claim.

9. Post-Warranty Support

Products that are outside of the warranty period will still receive support at a fee from Freedom Won for up to 15 years after the date of initial purchase from Freedom Won.

10. Definitions

- BESS – Battery Energy Storage System.
- BMS – Battery Management System.
- DoD – Depth of Discharge.
- EPC – Engineering, Procurement and Construction contractor.
- LiFePO₄ – Lithium Iron Phosphate (battery chemistry).
- Product – collectively, the COREVA 5, SOLVA AC261, SOLVA DC261, SOLVA AC418, and SOLVA DC418.
- SLA – Service Level Agreement.
- SoC – State of Charge.

11. General

The governing law and jurisdiction of this warranty shall be the Republic of South Africa.