

Growatt Battery Warranty Card

Apply to the following models:

Growatt ARK series Cobalt Free Lithium Ion Phosphate Battery (Cobalt free LiFePO4), battery Module: ARK 2.5L-A1 (2.56 kWh, 51.2V, 30Kg), Model: ARK2.5L, ARK5.1L, ARK7.6L, ARK10.2L, ARK12.8L, ARK15.3L, ARK17.9L, ARK20.4L, ARK23.0L, ARK25.6L

Herein after refers as "the battery".

Growatt New Energy Technology Co., Ltd provides a non-transferable warranty for a period of **10** years for the integrated lithium-ion phosphate batteries (the battery). The battery warranty is provided by Growatt only for cooperating usage with Growatt Storage Devices, (hereinafter refers to as "GROWATT STORAGE DEVICES"), for example, Growatt SPA, SPH Series, XH battery ready series, SPF off grid series (if applicable). This standard warranty validate from the date of customer purchase, and no more than **10** years and 3 months from the date of delivery from Growatt.

These warranty terms & conditions are only apply for devices originally purchased from Growatt for selling and installation in the defined destination set forth in the purchase orders in the oversea market (out of China), unless there are specially stipulated.

Warranty Period subjects to the Warranty terms & conditions, as well as the exclusions describes below. This warranty does not include any accessories and tool kit items provided with the product.

Warranty of the Battery Performance

Growatt warrants that the warranted battery retains at least **70%** of Nominal Operation Energy (The Nominal Operation Energy is **2.56 kWh** for each ARK Cobalt free LiFePO4 battery, hereinafter refers to as Nominal Operation Energy) for the first 5 years warranted period, and, if applicable, at least **50%** of Nominal Operation Energy for another 5 years after under proper conditions of the use during the period of battery performance warranty.

The term "Nominal Operation Energy" herein means the initially rated operation capacity of the battery, stated on the battery specification or battery User Manual.

The precondition of the valid performance warranty shall be as follows:

- (1) The ambient temperature during the operation of the warranted battery must not fall below -10 °C or exceed 45 °C at all times; when storing the ambient temperature must not fall below -20 °C or exceed 45 °C; and
- (2) The warranted battery should not be exposed to a temperature exceeding 50 °C at any times; and
- (3) The prerequisite for warranty of performance mentioned below must be met.

The prerequisite as follows:

Accumulated discharge energy should not be more than 300 (three hundred) times of Nominal Operation Energy per year. The warranted usable operation energy (percentage) will be adjusted every year if the customer fails to fulfill such requirement according to the following conditions (Calculation for **each** ARK Cobalt free LiFePO4 2.56kwh battery):

Reduced Yearly Usable Rate [%] = (Accumulated Energy – 768 kWh) / 768 kWh) × 100%

(768 kWh = 300×2.56 kWh, saying as Standard Yearly Accumulate Energy)

The total reduced warranted usable energy is the summation of Reduced Yearly Usable Rate in each year warranted.

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- If 0% < Total Reduced Usable Rate <10%, then the warranted usable operation energy will be reduced by Usable Rate $\times 0.5$
- If 10% ≤Total Reduced Usable Rate <20%, then the warranted usable operation energy will be reduced by Usable Rate×0.8
- If 20% ≤Total Reduced Usable Rate <30%, then the warranted usable operation energy will be reduced by Usable Rate ×1.3

In the event of the battery had accumulated for years, but no detailed data for each year. Then the following calculation conditions will apply:

Total Reduced Usable Rate [%] = ((Total Accumulated Energy/ Number of accumulate years – 768 kWh) / 768 kWh) *Number of accumulate years × 100%

- If 0% < Total Reduced Usable Rate <10%, then the warranted usable operation energy will be reduced by Usable Rate $\times 0.6$
- If 10% ≤Total Reduced Usable Rate <20%, then the warranted usable operation energy will be reduced by Usable Rate×0.9
- If 20% ≤Total Reduced Usable Rate <30%, then the warranted usable operation energy will be reduced by Usable Rate ×1.4

In any event, if the calculated Total Reduced Usable Rate is more than 30%, then the performance warranty is void.

Example 1, if the year 1 accumulated discharge energy is 800 kWh, then the warranted usable energy would be reduced by 2.08% because:

Use rate: $4.16\% = (800-768) / 768 \times 100\%$

Reduced warranted usable energy: 2.08% = 4.16 % * 0.5

And, if the year 2 reduced warranted usable energy calculated is 2.5%,

Then the Total Reduced Warranted Usable Rate are 2.08%+2.5%=4.58%.

Example 2, if the accumulated discharge energy for 3 years is 2500 kWh, then the warranted usable energy would be reduced by 5.10% because:

Usable rate: $8.50 \% = ((2500/3-768) / 768) \times 3 \times 100\%$ Reduced warranted usable energy: 5.10% = 8.50 % * 0.6

The calculation method for battery Model with several ARK 2.5L-A1 (2.56 kWh, 51.2V, 30Kg) Modules would be accordingly. But the Standard Yearly Accumulate Energy would be N*768 kWh (768 kWh = $300 \times 2.56 \text{ kWh}$, N stand for number of ARK 2.5L battery modules).

For claiming Warranty of Performance, proof of accumulated date shall be submitted. Proof of accumulated date can represents as: Growatt device monitoring date, pictures of GROWATT STORAGE DEVICES LCD display showing the total discharge energy. In addition, in the event of no proof of battery accumulated data can be provided, the Warranty of Battery performance is NOT valid or covered.

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In addition, after the battery warranty had expired, customer (installer or end user) is required to remove the battery from the storage system, contact the supplier and replace it with a new or proper one under warranty. Growatt does not responsible for unexpected hurt, damage or sequence (electric shock, fire, etc) for warranty expired or void batteries.

Exclusion of Warranty

This warranty includes defects of design, components and manufacturing, but excludes from the following damage due to:

- Breaking the product seal (opening the casing);
- Transport damage, or other kind of physical damage, example, damage from falls;
- Use with other devices instead of GROWATT STORAGE DEVICES, constantly or temporarily; For example, charge with other devices instead of GROWATT STORAGE DEVICES, use as DC source for other devices;
- Outdoor installation or outdoor usage without proper shelter.
- Failure to observe the user manual, the installation guide, and the maintenance regulations;
- · Unauthorized Modifications, changes, or attempted repairs;
- Incorrect use or inappropriate operation; Connect or mix with different type of battery modules
- Insufficient ventilation of the device; Installation under the direct sun light; Installation adjacent to thermal source;
- Fail to meet the storage temperature requirement: -20°C to +45°C;
- Fail to meet the operating environmental requirement: charging temperature -10℃ to +45℃, discharging temperature
- -10℃ to +45℃; humidity range 5% to 95% no condensation, installation altitude should be less than 2000 meters.
- Failure to observe the applicable safety regulations;
- Defects or non-conformities which are caused by normal wear and tear,
- Force majeure and any other such defects caused by external influences including unusual physical or electrical stress (power failure surges, lightning, flood, fire, storm, accidental breakage);

The warranty does not apply if the obligations and exclusions described above are not complied or not observed.

Warranty condition

It is required that the battery system (charge & discharge device and the battery itself) should under monitoring on Growatt monitoring platform. The battery warranty would reduce to **3** years without monitoring.

Growatt monitoring platform would monitor the battery's performance constantly, report battery failure when it occurs. The monitoring allow us to diagnose and fix the problem remotely. Each time if a warranty claim is made for a battery that without monitoring, then the installer or the end user is obliged to organize a qualified personnel to conduct an onsite inspection & data collection under the instruction of Growatt.

A warranty case occurs when the battery shows a malfunction which no longer enables the intended use. Please report defective devices with a detailed error description and the error code displayed on GROWATT STORAGE DEVICES LCD screen.

If a device becomes defective during the agreed Growatt factory warranty period and provided that it will not be impossible or unreasonable, the device will be, as selected at discretion of Growatt:

- · Repaired by Growatt, or
- · Repaired on-site, or
- Exchange for a replacement device of equivalent value according to the model and age.

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In the latter case, the remainder of the warranty entitlement will be transferred to the replacement device. In this case, you do not receive a new warranty card or certificate since your entitlement is documented at Growatt.

In any event, a replacement or repair shall not justify the renewal or new beginning of the warranty period. In the event of the warranted battery model is not available in the market anymore, then Growatt, it's eligible to at its own discretion, replace it with different kind of product with equivalent functions and performances

In any event, the installation of the battery for customer shall be completed within 6 (SIX) months from the date of delivery from Growatt.

In the latter 5 years, Growatt have the exclusive right to determine how to carry out the remained battery warranty, including buy it back with a pro rata / proper price according its remaining warranty period or performance conditions, or renew it by a recent technology brand new battery with a reasonable price payable by the customer. In case Growatt provide replacement for customers, Growatt are not responsible for any other sorts of costs during the service procedure in that period, including (but not limited to) logistics fare, labor cost, any kind of compensation. Also the replacement may have a little flaw on its surface, and the warranty excludes any general defects, if battery is still can be charging and discharging.

Excessiveness in the meaning above exists in particular if the cost of the measures for Growatt would be unreasonable

- In view of the value that the device would have without the defect,
- · Taking into account the significance of the defect, and
- After consideration of alternative workaround possibilities that Growatt customers could revert to without significant inconvenience.

This warranty does not cover superficial or cosmetic defects, dents, marks or scratches, which do not affect the proper function of the battery, especially for warranty replacement devices.

Due to the technological progress, the replacement part or replacement device provided may not be compatible with the system monitoring or monitoring device, or other components installed on-site. Costs incurred as a result are not part of this warranty service and will not be covered by Growatt.

Except as herein expressly stated, there are no warranties or conditions, express or implied, by operation of law or otherwise, for any Growatt warranted battery thereof furnished hereunder. The parties agree that the implied warranties of merchantability and fitness for a particular purpose and all other warranties and/or guarantees, express or implied, are excluded from this transaction and shall not apply for the warranty of battery.

All other claims are excluded. in no event shall Growatt be liable for any special, incidental or consequential damages of any nature whatsoever for any reason (including, without limitation, lost profits, loss of use, loss of equipment or loss of revenues), regardless of the legal theory on which any such claim may be made, even if advised of the possibility of such damages. Claims that go beyond to get a warranty replacement, in particular claims for compensation for direct or indirect losses including (by not limited to) labor cost and other kind of expenditures for carrying out the battery warranty, logistics fees, loss of electricity profits, etc, are also not covered by this warranty, unless Growatt is subject to statutory liability. In such cases, please contact the company that sold you the device. Possible claims in accordance with the product liability law remain unaffected.

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This warranty does not restrict the warranty claims of the purchaser arising from the purchasing contract entered into with the seller of the batteries.

Warranty Claim documents

Please report the defective device to your supplier with this warranty card completed, in no later than 14 days after signs arise of a problem that might lead to a claim.

Supplier or end user is required to send the warranty claim form to Growatt or Authorized service partner with all the necessary information.

The warranty shall be performed if all of the following conditions are met:

This warranty card is present in its original form.

The original purchase & installation invoice of the battery, indicating the date of purchase or installation. And, a commissioning report signed by the end user and the installer, for the product installing and commissioning.

Growatt's User manual provided with the battery has been followed.

The battery has consistently been used as intended at all times.

The capacity of the battery is under 50% of the Nominal Operation Energy of the within 10 years from the date of warranted period. Customer cooperates in determining whether or not the Nominal Operation Energy has been achieved by providing Growatt evidence via the monitoring system or GROWATT STORAGE DEVICES device.

And the warranty condition is not affected by the Exclusion of Warranty stated above.

To make a warranty claim under this warranty, the installer or the end user must contact us, submit a Warranty Claim Form on the website warranty.oss.com, or via Growatt local service agent publicly known, or via email address service@ginverter.com.

In any event, submit the warranty claim form to Growatt within 1 (ONE) months on the failure of the battery.

Growatt will examine the submitted evidencing documents and then will decide whether to collect the battery and conduct a further inspection to verify the remaining capacity of the battery. In the case of the inspection of the remaining capacity indicates that the guaranteed capacity was not fallen short of, the costs and expenses associated with such inspection shall be reimbursed by Customer.

Growatt may contact customer for further details, in regards to the defective battery, requiring to complete root cause analysis testing of the product, or provide further evidence that can support the warranty claim.

Please store this warranty certificate in a safe place together with the original purchasing & installation invoice, and other related materials for the warranted battery. To determine the warranty entitlement, please submit copies of the warranty claim documents listed in above. Otherwise, Growatt is entitled to refuse warranty services.

Applicable Law

All claims arising from or in connection with this warranty are subject to laws of People's Republic of China. ShenZhen, China is the exclusive place of jurisdiction for all disputes arising from or in connection with this warranty.

Please note Growatt reserve the ultimate explanation right on this battery warranty card.

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