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Warranty Terms & Conditions

for TommaTech Low Voltage Lithium-Ion Batteries

V2305.15

Introduction

1. This limited warranty* (hereinafter referred to as Warranty) specified below applies to TommaTech Low Voltage battery systems (hereinafter referred to as TT-LV-Batteries or Products), which are sold by TommaTech GmbH (hereinafter referred to as TommaTech) or authorised distributors to a dealer, end-Customer, or installer (hereinafter referred to as Customer)

Purpose

2. The primary purpose of this document is to clearly define matters related to the warranty policy of TT-LV-Batteries.

Products under the Warranty

3. This warranty applies to the following products:
 - a. TT4850 48V 50Ah 2.4kWh Smart Modular Lithium Battery
 - b. LiFePO4 12.8V xxxAh IP65 Special Lithium Battery (x = 060, 100, 200)
 - c. LiFePO4 25.6V xxxAh IP65 Special Lithium Battery (x = 100, 200)
 - d. LiFePO4 51.2V 100Ah IP65 Special Lithium Battery
4. Please note: This warranty does not include any accessories and tool kit items provided with TT- LV-Batteries.

Warranty Period

5. The product warranty period of TT-LV-Batteries is 60 months starts with delivery. Delivery is when the price has been paid in full by the customer and the customer has taken the goods from TommaTech or its distributor. Replacing or repairing TT-LV-Batteries under warranty does not extend the current warranty period. Replaced or repaired TT-LV-Batteries shall be warranted for the remainder of the original period of warranty. No replacement warranty period is given for repaired or replaced TT-LV-Batteries.

Performance Warranty

6. TommaTech warrants that the TT-LV-Battery retains at least 60% of its nominal energy for either 24 months after the date of sale, 30 months after manufacturing or until the product reaches a product specific energy throughput, provided that the battery system is stored, handled and

operated according to the specifications as outlined in the manual and used in accordance with the issues specified in this document and the user manual.

Product Warranty

7. TommaTech warrants that TT-LV-Batteries will be free of defects caused by improper design, workmanship, or defective materials.

Exclusions from Warranty

8. Except for defects and malfunctions arising from the manufacturing of TT-LV-Batteries, no problems, damages, or malfunctions are covered under this warranty. Furthermore, and in the event of damages related but not limited to one of the causes listed below, no warranty claims will be acknowledged or accepted and are not part of TommaTech's warranty obligations:
 - a. Problems, defects and malfunctions caused by outer forces such as but not limited to these, power outages, power surges, lightning, explosion, fire, flood, earthquake, typhoon, hurricane, tornado, volcano explosion, tsunami, lightning strikes in or around the TT- Batteries and accessories, problems, defects and malfunctions caused by snow and salt damages, weather and natural events, natural disasters, acid rain, smoke, air pollution or other impurities, dirt or dust on the inverters and accessories, vandalism (regardless of whether the damage is caused by intent or negligence and is caused by the buyer or user of the TT-LV-Batteries or any third parties), negligence or deliberate accident, problems, defects and malfunctions caused by external factors and unforeseen situations such as civil disobedience, force majeure, etc. and problems, defects and malfunctions outside the control of TommaTech.
 - b. Improper or noncompliant use and damages caused by negligence or intention, including but not limited to discharging the battery below 10% on a regular basis.
 - c. Damages caused by reverse connection of battery polarity.
 - d. Damages caused by drawing more current from the battery than the battery discharge current capacity.
 - e. Damage caused by charging the battery by applying more current than the maximum charging current capacity of the battery.
 - f. Damages caused by charging the battery by applying more voltage than the maximum charging voltage of the battery specified in the user manual.
 - g. Damages caused by short-circuiting the battery poles.
 - h. Damage caused by contacting the positive and negative terminals of the battery with metal objects.
 - i. Damages caused by the battery connectors not being fully inserted.
 - j. Damage caused by connecting the batteries in series.
 - k. Damage caused by exposing the battery to high current or voltage.
 - l. Damage caused by contact of the battery with any liquid.
 - m. Damage caused by leaving or using the battery in excessively humid environments.
 - n. Damage caused by exposing the battery to temperatures higher or lower than the values specified in the user manual.
 - o. Damage caused by direct exposure of the battery to sunlight, fire, heaters or materials containing high temperatures.

- p. Damage caused by direct power supply to electrical or electronic devices such as televisions and washing machines.
- q. Damages caused by using direct alternating current source for battery charging.
- r. Damages caused by continuing to use the battery in any risky condition.
- s. Damages caused by using batteries of different types, different capacities and different production dates during parallel electrical connection of the batteries.
- t. Damages caused by disconnecting the connector connections while any load is connected to the battery or while drawing current.
- u. Improper installation, commissioning, start up or operation contrary to the guidance detailed in the installation manual.
- v. Inadequate ventilation and air circulation resulting in reduced cooling and natural air flow.
- w. Installation in a corrosive environment.
- x. Damage during transportation or movement of TT-LV-Batteries as well as their storage under unsuitable conditions.
- y. Unauthorized repair, change, maintenance, operation and incorrect installation, mounting and applications attempts.
- z. Failure to adequately maintain the equipment. An on-site inspection by a suitably qualified authorized technician is required following 12 months of continuous use. Warranty claims made beyond 12 months from the date of commissioning may be declined if it cannot be demonstrated that the equipment has been maintained adequately.
- aa. External influences including unusual physical or electrical stress such as power failure surges, inrush current, etc.
- bb. Breakage, cracking, or damage in any way due to external impacts and effects.
- cc. In case of the model, type, label, or serial number being changed or deleted, or made unreadable.
- dd. Use in a way that violates the intellectual property rights of TommaTech or third parties such as patents, utility models, trademarks, copyrights, design rights, etc.
- ee. Errors, problems, and malfunctions caused by the installation and application or other products and materials.
- ff. Use of an incompatible inverter or devices.
- gg. Problems, defects, and malfunctions caused by other products and materials in the solar system.
- hh. Errors or defects caused by third party embedded or external software or hardware (e.g., devices controlling inverters or devices that control the charge or discharge of the battery) which were installed without the written consent of TommaTech.
- ii. Modification or alteration of TT-LV-Batteries, including if the serial number or label of the product has been altered, removed, or defaced.
- jj. Installation is not carried out within 2 months from the date of delivery.
- kk. Usual wear or tear.

Warranty Limitation

- 9. TommaTech's liability under this warranty shall be limited to replacement with a new or equivalent battery, or repair, or discounting from the price. TommaTech will, after a proper claim

is received from the Customer within the warranty period, at its own discretion replace or repair the TT-LV-Batteries or offer a discount. Any claims for defects require that the Customer has complied with its statutory obligations to examine the goods and to make the complaint immediately on receipt of the goods.

10. Furthermore, TommaTech's total liability under these warranty terms may not exceed the purchase price of the TT-LV-Battery claimed as defective. TommaTech shall be under no liability under this warranty (or any other warranty condition or guarantee) if the total price for the goods has not been paid by the due date for payment.
11. The special statutory provisions applying in the case of delivery of the goods to an end user shall remain unaffected.

Defective Parts

12. If a defective TT-LV-Battery is discovered, TommaTech or TommaTech's authorized distributors must be notified immediately and use of the defective TT-LV-Battery must be discontinued. If a defective TT-LV-Battery is discovered, the product packaging must not be thrown away and the return instructions from TommaTech or TommaTech's authorized distributors must be followed for the return procedure.
13. The defective TT Battery, its parts or units replaced under a warranty claim become the properties of TommaTech and must be returned to TommaTech or TommaTech's authorized distributors for inspection with the original or equivalent packaging and with the accompanying documentation within a reasonable period of time, not exceeding fifteen (15) days.

Replacement and Repair Service

14. TommaTech may use new or refurbished batteries as replacement, which performances are equal to or higher than the defective TT-LV-Battery. If the TT-LV-Battery model is no longer available in the market, TommaTech may upon its own discretion, replace it with a different model with equivalent functions and performances or refund the remaining annually depreciated value of the purchase price of the TT-LV-Batteries.

Transportation Costs

15. Unless there are unique agreements signed between TommaTech and the Customer, the warranty covers only the cost of materials and labor work to make the defect TT-LV-Battery functional again. Generally, TommaTech is not responsible for the transport of goods. Transportation costs including shipments, insurance, duties as well as import & export fees are borne by the Customer. TommaTech has no warranty obligation in this respect. However, and in case that a defect was accepted to be caused by manufacturing, TommaTech may, at its own discretion, cover the costs of transporting the TT-LV-Batteries which have been replaced or repaired under the warranty to their respective location.

Service after Warranty Expiration or for Products not covered by this Document

16. For faulty TT-LV-Batteries not covered by this warranty, TommaTech shall provide charged services, whereby all expenses including but not limited to material cost, labor cost, warehouse cost, transportation cost, custom duties, analysis cost, management cost, corporate profits, disposal expenses, etc. will be covered by the Customer. However, these warranty terms do not limit applicable consumer protection laws relating to defects in equipment purchased by Consumers.

Warranty Claim

17. In case of any defects, faulty TT-LV-Batteries, or a suspicion thereof, the Customer has to submit a proper claim to TommaTech immediately after its discovery including the followings:
 - a. Completed faultreport including the product information such as serial number, etc., solar solution configuration, description of defect, installed protection devices, etc.
 - b. A documentation including:
 - i. Detailed information about the entire systems (e.g., system schematic)
 - ii. Documentation of previous claims/exchanges (if applicable)
 - c. Commissioning report proving the installation according to the user manual.
 - d. Copy of the original invoice, receipt, and any other document which can prove the purchase of the TT-LV-Batteries, and the date of installation.
 - e. Battery data including:
 - i. Product model
 - ii. Product serial number
 - iii. Indicator status
 - iv. Test Report
18. Upon approval from TommaTech, the claimant needs to send the defect claimed TT-LV-Batteries to TommaTech packed in its original packaging or equivalent but in such a way that it will not be damaged during transportation including accompanying documentation as specified by TommaTech within fifteen (15) business days. Please note that defective parts or units replaced under a warranty claim become the properties of TommaTech.
19. After receipt of the defect claimed TT-LV-Battery as specified and if TommaTech's due inspection concludes that the claimed defect in the TT-LV-Battery should be covered by the warranty, TommaTech may repair the TT-LV-Battery, change defective part(s), replace the TT-LV-Battery with a new or equivalent solution, or discounting the price at its own discretion and depending on the defect of the TT-LV-Battery.
20. Please note that TommaTech will seek reimbursement of all incurred costs (labor, travel, delivery, and/or replacement units that have been sent, etc.) from the claimant if the TT-LV-Battery is found to be free from defects in materials or workmanship, or if the TT-LV-Battery is found not to be covered by this Limited Warranty.
21. Furthermore, please note that:
 - a. TommaTech may contact the customer for further information regarding the defect.
 - b. TommaTech may require the customer to complete root analysis testing of the TT-LV-Battery as well as the corresponding solar solution to provide evidence supporting the claim.
 - c. Final verification of the claim will be made by TommaTech.
 - d. TommaTech reserves the right to refuse exchange requests where adequate information is not provided.
 - e. This warranty applies without prejudice to mandatory statutory liability regulations.

Geographical scope of the Warranty

22. This Limited Warranty terms and conditions only apply for TT-LV-Batteries which are originally purchased from TommaTech's authorized channels and installed in a destination defined within

the European Union countries, Scotland, Norway, Switzerland, excluding affiliated islands and overseas territories unless there are special agreements signed between TommaTech and the direct purchaser. For any units sold for one country/region but installed in another country/region, the warranty will become invalid if there is no written confirmation/approval from TommaTech prior to the installation.

Special Amendment for TT-LV-Batteries installed completely Off-Grid

23. It is requested that off-grid installations are inspected annually by a qualified electrician which is to be documented with a test protocol. Failure to comply with this or any requirement to maintain the equipment may invalidate any warranty claims.
24. For better analysis and troubleshooting in case of a warranty claim, it is recommended that the Customer register the inverter online; otherwise, the Customer will need to provide detailed information in the TommaTech RMA form for a warranty claim.
25. The total load connected to an off-grid system shall be calculated based on its rated power. Wrong calculation, especially for inductive loads, may cause EPS Overload fault during nighttime or when there is not sufficient PV power generation and remaining battery capacity. Damages to inverters caused by incorrect installation will not be covered by the warranty.

*This Limited Warranty is a basic warranty promise from TommaTech to its Customers. TommaTech reserves the right to adapt the warranty terms in line with technological progress. In certain countries/regions, end Customers may receive an additional warranty promise which is provided by TommaTech's authorized, local distributors. Should any claims arise in this respect, please direct them to TommaTech's authorized local distributors. Please note that this limited warranty statement may NOT be the latest version. If any needs, please contact TommaTech to get the latest version.