

User Guidelines and Manufacturer's Limited Warranty



Modern Solar Battery & Supplies warrants (hereinafter referred to as the “Manufacturer”) each battery (“the Product”), sold by Us or any of its authorized distributors or dealers, to be free of defects for the period as listed in the table below (“the Warranty Period”), from the date of sale as determined by either the customer’s sale receipt, the shipping invoice and/or the battery serial number, with proof of purchase. Within the Warranty Period, subject to the exclusions listed below, the Manufacturer will credit, replace or repair, if serviceable, the Product and/or parts of the Product at its sole discretion, if the components in question are determined to be defective in material or workmanship only. By using the product, you agree to allow the manufacturer to make any necessary repairs or modification deemed necessary in a timely manner, should the Manufacture deem this not possible, the Manufacture agrees replace the product or provide one of equal or greater value at no expense to the customer.

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Warranty Period

Product	Free replacement or repair period (months)	Total warranty Period (years)
COMMERCIAL APPLICATIONS		
Lithium (Li-ion)	3	0.5
Lithium Iron Phosphate (LiFePO4)	24	2
Lithium Titanite (LTO)	36	3
RESIDENTIAL APPLICATIONS		
Lithium (Li-ion)	24	2
Lithium Iron Phosphate (LiFePO4)	36	3
Lithium Titanite (LTO)	36	3

Note: Additional extended warranty options are available, contact your seller for more information.

NON-TRANSFERABLE

This Limited Warranty is to the original purchaser of the Product and is not transferable to any other person or entity. Please contact the place of purchase regarding any warranty claim.

INSTALLTION GUIDELINES:



The product contains several safety features one of which is a **Battery Management System (BMS)**. The BMS is an electronic circuitry designed to protect the battery from damage due to issues such as overcharging and under discharging the cells. Ensure that your charge controller settings are configured correctly per battery specification. See battery information sticker for detailed information on charging/discharging parameters. Damage to the BMS is not covered under the warranty due to incorrect settings. All batteries (including BMS) are tested and the capacity and amp hour are recorded and affixed to the battery case before delivery. When Connecting the Battery, you must pre-charge the inverter using a resister connected to the battery to prevent the BMS from

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1. Going into safe mode.
2. Damaging the BMS

To exit safe mode, try to charge battery. Any damages to the BMS due to negligence will be at the customers expense unless otherwise stated. The Manufacturer can perform a replacement/repair at a cost to customer. Care must be taken when handling Lithium (Li-ion) batteries. Damage can result in thermal runaway which the manufacturer cannot be held responsible.

Lithium-ion batteries should be installed in a fireproof enclosure and way from any flammable objects

General Battery Specification: See battery information sticker for more detailed information

Battery Chemistry	Model	
	24V	48V
Lithium (Li-ion)	Recommended voltage usage range 25.9V nominal – 28.7V Max	Recommended voltage usage range 51.8 nominal – 57.4V Max
Lithium Iron Phosphate (LiFePO4)	Recommended voltage usage range 25.9V nominal – 28.7V Max	Recommended voltage usage range 51.8V nominal – 57.4V Max

NOTE: To greatly increase longevity of battery, it is recommended not to fully charge/discharge battery and charge at a lower rate. It is recommended to have an oversized battery bank. This will ensure that the situation above is not met.

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WARRANTY EXCLUSIONS

The Manufacturer has no obligation under this Limited Warranty for Product subjected to the following conditions (including but not limited to):

- Damage caused during shipping or mishandling of the Product
- Damage due to improper installation; loose terminal connections, under-sized cabling, incorrect series or parallel connections, reverse polarity connections or insufficient space for airflow, incorrect charging parameters, over discharging and under discharging
- Mixing different battery chemistry
- Environmental damage such as inappropriate storage conditions as defined by the Manufacturer, exposure to extreme hot or cold temperatures, fire or freezing, or water damage, impact or collision
- Damage due to improper operation or maintenance such as under- or over-charging the Product, cold temperature charging, lack of cleaning resulting in corroded terminal connections or build-up of dirt, debris, organic matter, fossil fuels or chemicals on the Product casing
- Product that has been opened, modified or tampered with
- Tampering or removal of manufacture date codes or seals
- Product that was used for applications other than which it was designed and intended for by the Manufacturer
- Product that was under-sized for the application

This Limited Warranty does not cover a Product that has reached its normal end of life due to usage which may occur prior to the Warranty Period. A battery can deliver only a fixed amount of Energy over its life which will occur over different periods of time depending on the application. The Manufacturer reserves the right to deny a warranty claim if the Product is determined, upon inspection, to be at its

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normal end of life even if within the Warranty Period. A capacity test is performed on each battery pack and provided to the buyer

WARRANTY DISCLAIMER

This limited warranty is in lieu of, and manufacturer disclaims and excludes, all other express warranties. Manufacturer further limits the duration of all, whether regularity, express or implied warranties, including, without limitation, any warranty of merchantability or fitness for a particular purpose, to the warranty period. Manufacturer's exclusive liability for breach of any warranty on the Battery shall be to replace the Battery within the warranty period in accordance with the terms of this limited warranty. In no event shall Manufacturer be liable for any loss or damages of any other kind, whether direct, incidental, consequential including lost profits, exemplary, special or otherwise, including any lost profits or removal, shipping, or installation expenses.