

# AMARON<sup>®</sup> **QUANTA**

LIFE UNINTERRUPTED



## AMARON QUANTA WARRANTY CARD

MVRLA - M3



### AMARA RAJA

Gotta be a better way

# TERMS & CONDITIONS OF WARRANTY



1. **Amaron Quanta™** SMF VRLA battery carries a warranty for a period of 24 months from the date of sale or 27 months from the date of manufacture whichever is earlier. The warranty is applicable only in India.
2. The warranty is limited to defects arising from the use of faulty material or poor workmanship. Consequential liabilities will not be entertained.
3. In the event of any problem with the battery, customers can log in service complaints through **Amaron Quanta™** customer care centre using a toll-free number and obtain a complaint reference number for future communication and tracking status of the complaint. The complaint will be assigned to the nearest authorized channel partner or service provider for attending to and resolving.
4. The right to determine whether a battery needs free replacement or rectification rests with the company and is binding under all circumstances. Also, in case of replacement, the company reserves the right to give a new battery or rectified battery.
5. Defective batteries arising out of free replacement will become the property of the company and no scrap rebate will be given for that battery.
6. In the case of warranty replacement, the warranty period for the replaced battery will still be considered from the date of sale or manufacturing of the first sold battery as defined in point no 1. i.e., warranty replacement will not alter the warranty on the original sale. Consequently, the balance warranty period and/or the formal revalidation for the same will be suitably discharged by the company and/or will be physically marked on the replaced battery.
7. Company is not responsible for the additional warranty period given by channel intermediaries over and above the standard warranty period.

8. The warranty is valid only for the claim arising out of the “first end-user sale” by the company or its authorized channel partners or the OEMs. This warranty will cease if the battery is transferred by way of sale or many other means to any other third party (ies).
9. All liabilities under this warranty will cease if the battery is:
  - a. Used for applications/s other than what is/are specified in the installation and operating manual or product catalogues.
  - b. Operating under conditions that violate the recommended practices and/or guidelines and/or specifications mentioned in the installation and operations manual like exposure to sunlight or rain etc
  - c. Physically damaged / willfully abused.
  - d. Out of warranty.
  - e. Used for applications other than online UPS.
  - f. Given on rental basis.
  - g. Any evidence or proof of the battery not being in the charged state throughout its life or conditions not conducive to fully charging the battery at any point in time.
10. The warranty is void and will cease to exist when damages are caused due to
  - a. Faulty charging systems, improper handling, improper charging, servicing by unauthorized personnel, destruction by fire / natural calamities and/or theft/pilferage.
  - b. Any attempt noticed as indicative of tampering (including but not limited to physical scratch marks and/or deformities and/ or damages etc) with safety valves/protection cover.
  - c. Battery found to be undersized or used in a manner to be unsafe will not be warranted.
11. Warranty does not cover normal wear and tear of the product or its parts due to usage.
12. We strongly recommend the use of an aging factor while sizing the battery to ensure a designed backup is available from the battery till the end of life. Battery capacity will get reduced over a period of time due to cycles, as a portion of active material gets degraded and will stop participating in the chemical reaction.

13. Octroi duty or local taxes if any become leviable for the battery under repair or replacement shall be borne by the customer. Recharging is not covered under the purview of this warranty and will be charged extra.
14. All claims arising within the period must be accompanied by this warranty card.

All legal proceedings related to any dispute arising out of or in connection with this warranty shall be subjected to the jurisdiction of the appropriate courts at Tirupati only.

Customers are deemed to have read, understood and agreed to these conditions at the time of purchase.

## OPERATING GUIDELINES

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1. Constant potential current limited charging as per the table given below is recommended to charge these batteries for optimum performance/life.
2. For the operating (ambient) temperature of more than or less than 27°C, apply the correction factor for charging voltage as per the table given below for optimum performance/life.
3. The original user should maintain a complete record regarding temperature, charging voltages & conditions of use as presented in the "Installation & Operating Instructions" manual and shall permit examination of these records to ARBL as and when asked for. Visit our web site: [www.quanta.in](http://www.quanta.in) for "Installation & Operating Instructions" manual & other related details or write to us at [quanta@amararaja.co.in](mailto:quanta@amararaja.co.in) for obtaining a copy of the manual.
4. In case of frequent deep discharges, we recommend the charging time to be elongated as much as 1.5 times to 2 times as that of regular charging once every 5 times of discharge (i.e. 24 hrs on float mode or 9 hrs If it is on boost charge).

5. The battery should never be left in a discharged condition, otherwise, the capacity to hold the charge may not be recovered. After every discharge, immediate recharging of the battery to 100% state of charge is recommended.
6. New and old batteries should never be used in series. Batteries of different capacities makes and performances should never be used in the same bank. We do not recommend more than 3 strings in parallel configuration.
7. Identify the cause and replace any defective batteries if abnormalities are noticed in voltage, heat, and electrolyte leakage or physical deformities.
8. No attempt is to be made to reverse charge the battery. While using long-stored battery, supplementary charging is preferred. If the battery is stored for more than 3 months, a refresh charge for 24 Hours must be given before use.
9. Continuous boost charging is not recommended for more than 24 hrs as it can overcharge the battery leading to drying out of electrolytes from the battery.
10. We recommend transporting the batteries in the upright position. Never bend the terminals nor solder cables directly.
11. Use proper sizes of connectors for interconnections between batteries and also from UPS to batteries.
12. Avoid loose / bad connections as it will result in short-circuiting.
13. Always recharge a battery fully, and check it under full load before marking a warranty claim.
14. Do not bypass the lower cut off protection in the UPS as it will lead to the deep discharge of the battery.

15. Battery should be secured against excessive impact or vibration. We recommend the installation of the battery at the lowest level of the equipment and farthest from the heat source.
16. Keep the batteries away from heat sources like direct sunlight, air condition exhausts etc.

Charging Voltage @ 27° C			
Available charging mode	Voltage	Charger over voltage cut off point	Recommended range of charging current (Amps)
Float	13.50V	13.74V	10 to 25% of rated capacity
Boost	13.80V	13.80V	

Maximum voltage ripple content permitted: < 2% RMS & Regulation: +/- 1%

**Temperature compensation/conditions:** Reduce 5mv/° C increase in temp (in cycle use). Reduce 3mv/° C in temp.(in stand by use) and vice versa for a reduction in temp. Recommended operating (ambient) temperature is 20° C to 30° C.

## CAUTION

- Keep the battery away from sparks, cigarettes and open flame.
- Avoid metallic contact across the terminals as it can result in short circuits and sparking.
- Avoid charging in airtight conditions.
- Keep a partition between the battery and other electronic parts in the equipment cabinet.
- No free electrolyte is available in the battery to affect the customers during handling. In case of acid leakage due to container crack, do rinse it with water immediately.
- Keep battery away from children.

**THE LEAD ACID BATTERIES CONTAIN VERY TOXIC & HAZARDOUS SUBSTANCES THAT COULD CAUSE IRREVERSIBLE DAMAGES TO HEALTH & ENVIRONMENT. UNLESS HANDLED PROPERLY, LEAD CAN CAUSE POISONING AND AFFECT THE NERVOUS SYSTEM THEREBY RESULTING IN IRREVERSIBLE RETARDATION & SUBSEQUENT DEATH.**

## **BATTERY DISPOSAL**

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IMPORTANT NOTIFICATION OF THE GOVT. OF INDIA IN REGARD TO HANDLING OF BATTERIES:

Scrap battery has to be disposed in order to comply with Battery Management and Handling Rules (BMHR), Ministry of Environment and Forests (MOEF)-Government of India. Hence, customer is advised to deposit the used battery with the dealer, manufacturer, registered re-cycler or at the designated collection centers and not to dispose-off in any manner.

Please note that violations of these guidelines may lead to legal action/prosecution by the Government Authorities.

## AMARA RAJA BATTERIES LIMITED

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### Registered Office

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Andhra Pradesh, India

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### Corporate Operations Office

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## AUTHORIZED BY

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## DATE

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