

Warranty Certificate for NARADA Batteries

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Narada Power Source Co. Ltd. China is one of the largest manufacturers of Batteries producing Valve Regulated Lead Acid Batteries are designed for Telecom application.

Warranty period and conditions

- 1) Narada is pleased to offer **Two (2) years warranty** from the date of out of Narada factory for AcmeG battery.
- 2) The Battery Series: UDS series
- 3) Frequency power cut/failures: total power outages duration no more than 10h per month, frequency of power outages should no more than 12 times per year and depth of discharge per time no more than 70%.
- 4) The battery operating temperature is +15°C~+25°C, peak operating temperature can not exceed +30°C.
- 5) The float and equalizing charge voltage setting should be as under:
Float Voltage: 2.25 Vpc at 25 Degree Celsius
Equalize Charge Voltage: 2.35 VPC at 25 Degree Celsius
Temperature Coefficient Factor: - 3mV/cell/°C in Float charge application
- 5mV/cell/°C in Equalize charge application
- 6) Battery compartment is designed to maintain all batteries at similar temperature.
- 7) The batteries shall be kept away at least 250mm from major heat source.
- 8) No more than 4 battery groups(strings) connected in parallel for application. One group consist of 4pcs 12V battery connected in series in order to match 48V system.
- 9) The charge current is not more than 0.2CA, and the discharge current is not more than 0.4C.
- 10) After each discharge, the battery has to be recharged within 24 hours.

General Terms and Conditions:

- 1) The warranty period is counted from the date of delivery from factory. The delivery date must according to battery barcode or shipment information.
- 2) Warranty claims must be complained to Narada within three (3) months from failure by buyer.
- 3) Any storage and maintenance of this battery shall in accordance with Narada's published operation manual.
- 4) For warranty claim, Narada only provide brand new battery/(s) on ex-works basis for replacement.
- 5) All claim/(s) shall be dealt between Narada and buyer directly, Narada can support buyer for investigation if needed.
- 6) Narada would claim the battery during warranty period on the basis of faulty block/(s) but not as whole string/(s) according to <IEEE Std 1188-2005 IEEE recommended practice for maintenance, testing, and replacement of Valve-Regulated Lead-Acid (VRLA) batteries for stationary applications>.
- 7) Battery backup performance test is the unique method to judge if battery faulty. If any other judgment mothed is used by buyer, it must be approved by Narada in advance. In this project, the criterial of end of battery life is residual capacity less than 70% of C10.
- 8) Buyer need to provide sufficient battery performance information to Narada for claim, Narada shall claim faulty battery/(s) accordingly if the complaint is verified.



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- 9) Narada will not be held responsible for any physical damage, improper installation, handling and damage caused by any disaster.
- 10) Narada will be not held response if the battery ambient temperature rises above certain Degree Celsius, which specified in item 4.
- 11) Narada suggest user to keep and provide the following monthly log if possible
 - History of A.C. power outage alarm.
 - Battery ambient temperature.
 - Narada will also take actual environment and power conditions for reference if needed.
- 12) For critical warranty issue, Narada reserve right to invest battery operation conditions and make conclusion, buyer must support for site access, local engineer accompany and local transportation for Narada engineers.
- 13) Narada reserve right to reclaim faulty battery/(s) back, and buyer must help to collect faulty battery/(s) to warehouse and keep it.
- 14) If upon initial inspection and installation the battery fails to meet the published performance rating per the latest Narada catalog data at the time of shipment or the user identifies defective in material or workmanship that would impair life or product performance the user will be instructed to hold the battery/(s) pending inspection by a Narada representative, Narada will verify and will repair or replace any defective battery at Narada's option.
- 15) If seller determines that a Product for which warranty service is claimed is not defective or nonconforming, buyer shall pay or reimburse Seller for all costs of handling, inspecting, testing, disposal, and transportation, and, if applicable, traveling and related expenses.
- 16) Narada Power Source Co., Ltd. shall not have any liability for any incidental or consequential damages.
- 17) This warranty is valid for **Gaddtech Cell C Project in South Africa** only.

Hangzhou, 1st April 2025
Narada Power Source Co., Ltd.

