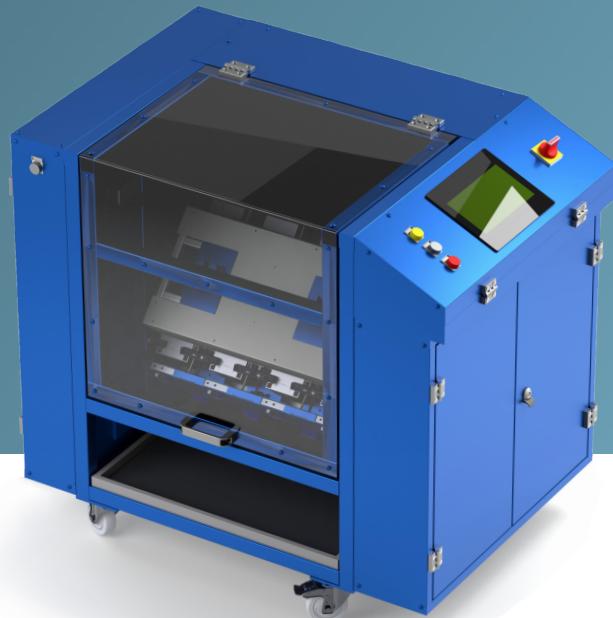


BARS

Battery Assessment and Recovery System
for up to 16 monoblocs. (Between 5Ah to 10Ah)

Improving Battery Health with Advanced Recovery



Overview

BARS is a comprehensive solution for the assessment, recovery, and reconditioning of stationary VRLA batteries. By using precision charging with Crystal Control Technology and a specialized electrolyte equalization process, BARS restores batteries to peak operational condition, enhancing their performance and extending their service life. Whether reconditioning batteries after prolonged shelf storage or rejuvenating batteries after their first life of operation, BARS ensures they remain in optimal health, significantly reducing the need for frequent replacements.

Key Features

Field-Ready Reliability

BARS significantly improves the reliability and lifespan of 12V AGM batteries in field UPS operations. Its straightforward, effective approach ensures these batteries remain dependable, even in challenging conditions, safeguarding power supply stability.

Advanced Issues Identification

BARS provides valuable data that, when combined with the expertise of WT R&D personnel, enables the identification and addressing of material and design issues such as separator degradation, internal shorts, unsuitable grid alloys, and compromised active materials.

Battery String Optimization

BARS strengthens underperforming batteries within a string, addressing the common issue of being limited by the weakest member. This enhancement ensures all batteries in the string operate at peak efficiency, extending overall string life and preventing premature failures.

Reconditioning Process

Initial Assessment:

BARS starts with a thorough diagnosis using WaveTech's Battery Condition Assessment Tool (BCAT).

Electrolyte Equalization:

A patented method balances the electrolyte concentration across the battery.

Precision Charging:

Monoblocs undergo tailored recharging controlled by a WaveTech charger.

Optimization and Recovery Enhancement:

Crystal Control Technology optimizes charge and enhances recovery.

Final Assessment:

The BCAT reassesses the battery to confirm recovery success.



Benefits

A Full Second Life for Used Batteries

BARS reconditions used and stored batteries, restoring them to full capability and extending their usability at a fraction of the cost of new batteries.

Maximize Recovered Performance

Through a tailored recovery process leveraging Crystal Control Technology, BARS maximizes the performance of each battery, adapting specifically to its condition and type, thereby extending its service life.

Enhance Battery String Performance

Through careful grading and sorting, BARS ensures that each battery operates optimally within its string and the entire battery system.

Boost Sustainability

BARS' efficient recovery process reduces battery waste, significantly cutting environmental impact and promoting sustainability.

Technical Specifications



Main

| | |
|----------------------------|---|
| Input Voltage | 220V / 50-60Hz +/- 10% |
| Rated power consumption | ≤1600VA (chargers 800VA, Motion 800VA) |
| No. of batteries processed | 8 (8x5Ah, 8X35Ah) |
| Connectivity | Ethernet/WIFI |
| Recovery operating time | Up-to 20 hours per recovery/conditioning |
| Equipment supplied | Mains cable, Touchscreen, Ethernet cable, WaveTech's State of Charge device |

Physical

| | |
|---------------------------|---------------|
| Dimensions (W/L/H) in mm. | 755/915/885 |
| Net Weight | Approx. 150Kg |
| Colour | Blue |

Conformance

| | |
|-------------------------------------|--|
| Safety Standards (chargers) | UL60950, TUV EN60950-1, CCC GB4943, BSMI CNS14336-1, EAC TP TC 004 approved; Design refer to EN60335-1, EN61558-2-16 |
| Safety Withstand Voltage (Chargers) | I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.25KVAC |
| Safety Isolation resistance | I/P-O/P, I/P-FG, O/P-FG;100M Ohms/500VDC/25C/70RH |
| Standards (drive, charge) | IEC/EN 61800 -5 -1, UL 508C |
| EMC Emission | Compliance to EN55032, GB/T9254, Class B, EN61000-3-2,-3, BSMI CNS13438, EAC TP TC020 |
| EMC Immunity | Compliance to EN61000-4-2,3,4,5,6,8,11; EN61000-6-2(EN50082-2), heavy industry level, criterial A,EAC TP TC 020 |

Environmental

| | |
|----------------------------|---|
| Operating temperature in C | 0 - 45 |
| Humidity | 20 - 85% (no-condensing) |
| Acoustic level | 56 dB |
| IP rating | 20 |
| Conditions | Indoor use, no corrosion or inflammable vapours or particles. |

Warranty

As per contractual terms*