

Battery Capacity Analyzer

A Unique Hand-held Product that takes seconds to accurately find the balance Ampere-Hour (Ah) capacity of any SLA, MF, GEL and Flooded Battery.

Features

- Instant Measurement of energy stored in a storage battery
- Tests 6V or 12V Lead Acid Batteries from 2Ah to 100Ah Capacity
- Suitable for any SLA, GEL or Car Flooded Batteries
- Displays DC Voltage and Balance available Ah capacity of the battery
- Shows the Internal Resistance of the battery
- Powered by the Battery under test
- Micro-processor based digital control of entire testing process
- Specially designed 4-terminal probing Battery Clamp of 100A capacity
- Test simulates 20-Hr discharge test (C/20) with a few seconds
- Bright, back-lit LED Display for test process display
- On-screen User Guidance for testing on the built-in LCD Screen
- Easy to use, portable and robust housing in a custom extrusion



Description

Automatic Battery Analyser, BCA 6/12, from Aplab enables instant analysis of any 6V or 12V Lead Acid battery, SLA, GEL or Flooded type of any AH rating from 2Ah to 100Ah.

Its digitally controlled test process instantly shows the Battery Voltage, its Internal Resistance and most importantly, the remaining balance of the stored energy (AH Capacity) of the battery as the percentage of its AH rating.

The robust 100A rated Battery Clamps have 4-terminal test capability to provide highly accurate testing method that simulates 20 hour C/20 discharge test to accurately measure AH stored energy capacity of the battery as a % of its rating.

Why is BCA6/12M essential for every user of Storage Batteries?

- Users of SLA or GEL Battery have no way to know how much 'juice' is left in their battery at a given time since there is no external sign showing its state of discharge, certainly not its terminal voltage. (except when battery is dead).
- Even in case of the open flooded type, only option is by measuring the specific gravity of the battery fluid.
- Knowing the remaining Stored Power in terms of the balance of its AH capacity is absolutely essential when one wants to identify the defective battery especially when they are used in series as in the case of UPS systems and solar inverters.
- Railways, ships, Telecom exchanges, Cellular Towers, Car fleets, car garages, battery suppliers, UPS and Solar System users, bus services, maintenance services companies form, QA groups account for the largest number of our customers.

Technical Specifications

Nominal Voltage Ranges	6V or 12V selectable.
Battery Types	SLA (AGM), GEL & Flooded (WET).
Battery Sizes	6V (1.2Ah - 10Ah) and 12V (1.2Ah to 100Ah).
Display Type	Back lighted Bright LCD matrix.
Tests Offered	i) Capacity 0% to 100% ii) No load Voltage iii) Internal Resistance.
Repeat Test Operation	Can perform repeat tests continuously.
Min. Input Voltage	4.8V.
Max. Input Voltage	20V.
Reverse Polarity Protection	RED LED Indication.
AH Selection	Programmable 2-100AH in steps of 1AH.
Ah Capacity	Test Simulated 20 hour (C20) load test to 10.50VDC.
Ah Calibration	Calibrated to fully charged SLA batteries at C20hour at 20°C (68°F).
Ah Result	Based on the battery under test temperature and status of charge.
No Load Voltage Accuracy	0.2% ±1 counts.
Voltage Resolution	10mV.
Ah Accuracy	±5% Fully charged premium brand C20 hour rated SLA batteries at 25°C to 30°C.
Cooling System	Built-in Fan - thermally controlled.
Case Construction	Special Aluminium extrusion with Plastic Membrane Panel.
Test Clamps	Specially designed Four Wire Battery Clamps of 100A capacity.
EMI Compliance	EN 61326-1:2006, Class B (Emissions), EN 55011:2007, A2 Radiated Emissions Only, EN 61326-1:2006, Basic Requirements (Immunity) EN 61000-4-2: 1995, A1, A2, EN 61000-4-3: 2006, A1.
Dimensions (mm)	86 (W) x 250 (H) x 50 (D).
Weight	1 Kg. (approx.).

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