

Battery Activator Charger/Discharger Management

ABA1000 Series



- Suitable for 1.2 V, 2V, 6V, and 12 V batteries
- Charges/discharges single and multi-cell batteries
- Data management software
- Easy-to-read LCD display
- Built-in safeguards to protect batteries during testing
- Highly accurate
- Compact design

ABA1000 Battery Management Station is a battery management system used to maintain, reactivate and test battery cells up to 12V. This system includes a battery charger, a battery discharger, a battery activator and system monitor.

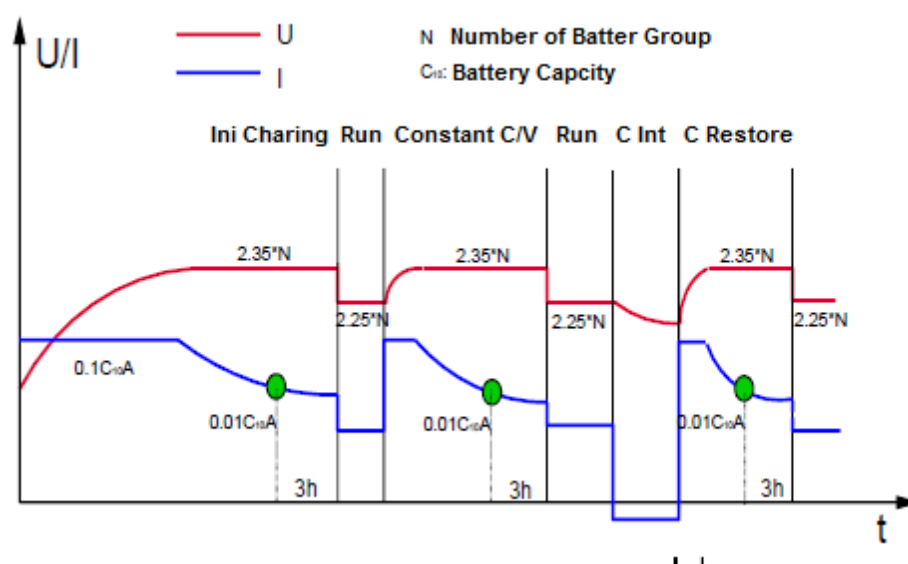
This station can increase the capacity of old batteries by activating the disabled active material of a battery's electrode plate, thereby amending battery malfunctions caused by chemical failures.

The charging, discharging, activation functionalities can be used either individually or collectively. When the functions are used collectively, lag-out batteries will undergo low-volt constant current charging and discharging of single or multi-cell batteries (up to 100A).

An LCD display will display the activation curve as well as parameters such as voltage and resistance as activation finishes.

Key Features

- Charger, discharger, and activator functionality which can be used either separately or comprehensively
- Compatible with 2 V, 6 V, and 12 V battery cells
- Charges/discharges single and multi-cell batteries
- Constant current discharging with current, time and voltage setting
- Charging/discharging automatic stop with test time, capacity setting and over current protection
- Alarm when high temperature, opposing connection, battery wire disconnect, under or over voltage, over current conditions
- Data management software
- Easy-to-read LCD display
- Built-in safeguards to protect batteries during testing
- Highly accurate test results
- Compact design to save space
- Three stage charging: Constant current, Fixed Voltage, Reduced current – floating



Specifications

ABA1000 Battery Management System

Item	12 V (2V, 6V optional)
Charge Current per Cell Voltage	Up to 15 A +/-0.01A
Discharge Current per Cell Voltage	Up to 50 A +/-0.01A
Charge and Discharge Voltage	9.0V to 16 V
Temperature Censor	-10°C~55°C +/- 0.001°C
Impulse Cycle	15s
Display	800 × 480 pixel color LCD with touch screen
Power Requirements ²	220 V±10% AC / 50 Hz
Operation Temperature	0 to 50 °C
Operation Humidity	5 % to 90 % RH (non-condensing)
Communication Port	RS232 or USB
Dimensions (L × W × H)	42.5 mm × 20 mm × 30 mm
Weight	15 kg

¹ Varies depending on battery capacity

² Desired input voltage to be specified by customer

Ordering Information

Model	Description
ABA1000	Battery charger / discharger / activator. Compatible with 1.2 V, 2 V, 6 V, and 12 V cells.

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Ver. ACT_ABA1000_Datasheet_V1a_Apr_2016