

Battery Discharger & Capacity Tester

General information about ADBC-123DC Battery Discharger & Capacity Tester:

- ✓ 5.7 inch LCD touchscreen for easy operation and showing various parameters real time
- ✓ Selectable discharge mode: constant current / power / resistance
- ✓ 4 adjustable stop points and multiple alarm designs to control the discharge process intelligently
- ✓ Support RS232 real time monitoring by PC or USB download data after Discharge
- ✓ PC software for capacity evaluation and report generation
- ✓ Optional wireless modules for 1.2V/2V/6V/12V cells voltage real-time measuring

FEATURES:

Wide Range: ADBC-123DC series can cover 10V~480V for multiple batteries test requirements like telecom (48VDC), power utilities (110VDC, 220VDC), UPSs (300-60 VDC), traction batteries(12-96VDC) etc .

Big size touch LCD: can display all real time data and graphs and support the click operations directly, humanized input method and menu designs simplified operating process.

Wireless modules: for cells voltage measuring are available for 1.2V/2V/6V/12V batteries voltage monitoring during discharge test.



Each wireless module can monitor 4 batteries simultaneously: Compared with the traditional cable voltage measuring method that each module only can monitor 1 battery, the new wiring operation is much easier.

With proper number wireless modules, main tester can real times can and display the voltage data of each battery during the discharging, and display the histogram of all batteries to follow the battery voltage tracks in whole discharging process.

The presetting function: for discharge parameters provides 8 locations for setting up all discharge parameters in advance, this design can skip the setting procedures for the same discharging, simplify the operation and speed up the test.

Selectable Discharge Modes: ADBC-123DC series provides 3 discharge modes for different test requirements: Constant Current / Constant Power / Constant Resistance.

Multiple Adjustable Stop Points: ADBC-123DC offers 4 adjustable points for test stop points to avoid excessive discharge: Group Low Voltage / Discharge Time / Discharge Capacity / Cell Low Voltage

Multiple Protections & Alarms: Over Input Voltage/ Overload/ Overheat/ Reverse Polarity ADBC-123DC series provide sample protective measures for various abnormal situations during discharge. Automatic termination, LCD prompt and beep warning would assist users to make proper treatments.

Internal Memory: ADBC-123DC series can save several independent discharge records automatically without Laptop monitoring, non-volatile internal memory guarantees the data security even in unexpected shutdown.

Extendable & Compatible: Connected with clamp current, ADBC-123DC series cooperate other types in ADBC-123DC series or any other load units, and clamp current can count external current in.

Data analysis software:

Support data downloading and analyzing through realtime communication or USB memory devices

The software interface includes: battery voltages curve and bar chart, battery resistances bar chart, group voltage curve, current curve, capacities histogram, data form and so on.

Powerful capacity estimating function, the software can predict the capacity of each battery in the tested group.

The software shows the data by various ways like barcharts, curve, and form. And users can magnify or minify any windows to view more details.

Automatically create EXCEL data report, easy to send or download the data.



Technical specification of the device:

Technical Details			
Type: ADBC-123DC	16CT	18CT	17CT
12V(10~15V)	200A Max	60A Max	60A Max
24V (21.6~28V)	300A Max	120A Max	120A Max
36V (32~43V)	300A Max	120A Max	120A Max
48V (43.2~58V)	300A Max	120A Max	120A Max
96V/110V(70~140V)	-	120A Max	120A Max
220V/240V(40~300V)	-	60A Max	60A Max
380V/480V(300~480V)	-	-	35A Max
Max Power	16kW	18kW	17kW
Power Cable Size	120mm ²	50mm ²	
Max Extension Current	720A Max(120A internal + 600A external)		
Discharge Mode	Constant Current, Constant Power, Constant Resistance		
Accuracy	Current: $\leq \pm 0.5\%$, Group Volt: $\leq \pm 0.5\%$, Cell Volt: $\leq \pm 0.5\%$		
PC Communication	RS232 serial communication		
AC Power Supply	220 V AC (-20% to +30%) 50/60 Hz		
Over-Temp Protection	Resistor Box over 85°C; Air Cooler over 100°C		
Withstand Voltage	Input-Shell: 2000Vdc 1min Input-Output: 2000Vdc 1min Output-Shell: 700Vdc 1min		
CE Certificate	LVDstandard : 2006/95/EC:EN 61010-1:200 EMCstandard : 2004/108/EC Annex II: EN61000-6-1:2007 EN 61000-6-3:2007 EN 61000-3-2:2006+A2:2009 EN61000-3-3:2008		
Environment	Storage Temperature: -40~70°C Humidity: 5~95% RH Cooling: Force Air Cooling Work Temperature: -5~40°C		
Dimension / Weight	670×230×370(mm) / 26kg(820), 24kg(840), 25kg(860)		

