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**NEW**

# RNC ACT SERIES Intelligent Battery Discharge & Charge Unit

Constant Current Discharge



Cell Voltage Monitoring



Smart Charge



Auto Discharge Charge Cycling



- **One Machine with Multifunction:** wide range design, suitable for battery groups' discharge, charge and activation test for different voltage levels
- **Multiple Discharge Modes:** high efficiency aerospace load materials and advanced control technology to ensure discharge accuracy
- **High-Efficiency Charging:** complete three-stage charging mode (constant current - constant voltage - floating charge) to improve charging efficiency
- **Battery Group Activation:** freely set charge and discharge rules, activation times, and effectively increase battery capacity
- **Wireless Cell Voltage Recording:** wireless monitoring and acquisition technology is used to record each cell voltage

Type	RNC ACT900		RNC ACT910	
Nominal Voltage	Max Constant Discharge Current	Max Charge Current	Max Constant Discharge Current	Max Charge Current
12V	150A	100A	300A	200A
24V	150A	100A	300A	200A
36V	150A	100A	300A	200A
48V	150A	100A	300A	200A
72V	90A	83A	180	167A
80V	80A	75A	160	150A
96V	70A	63A	140A	126A
110V	60A	55A	120A	110A
220V	30A	27A	60A	54A
240V	25A	25A	50A	50A

Determining battery capacity through discharge testing is a widely accepted method in the industry. However, the battery group needs to be fully charged after the discharge test, so a test must be carried with a variety of instruments. This leads to the test data fragmentation and impossible to unify analysis and summary, brings great difficulties and risks to the maintenance of frontline personnel. RNC ACT Series Intelligent Battery Discharge & Charge Unit integrates functions of discharge, charging, activation, cell monitoring and fast accounting capacity. It supports data charts, cure and parameter viewing; and report generation in the whole process. It is the ideal instrument for battery group test and maintenance.

## FEATURES

- 1 7 inch color touch screen: large-screen touch control, easy to operate
- 2 Wireless acquisition antenna: supports wireless module communication
- 3 Portable handle: easy to handle
- 4 U disk port: data collection and transfer
- 5 DC input switch: guarantee DC charging and discharging normal operation
- 6 AC input switch: ensure normal input of AC power
- 7 Extended control port: support parallel operation
- 8 Cable port: connecting the positive and negative terminals
- 9 Charging cable port: AC input plug
- 10 High-performance aerospace discharge components: low power consumption, high safety factor, and no read-hot phenomena.



## FUNCTIONS

- **One machine with multifunction:** integrates functions of discharge, charge, and activation, wide range design, suitable for battery test and maintenance of various industries
- **Multiple discharge modes:** The discharge current is continuously adjustable, supporting constant current, constant power, and constant resistance in multiple modes to accurately measure battery capacity.

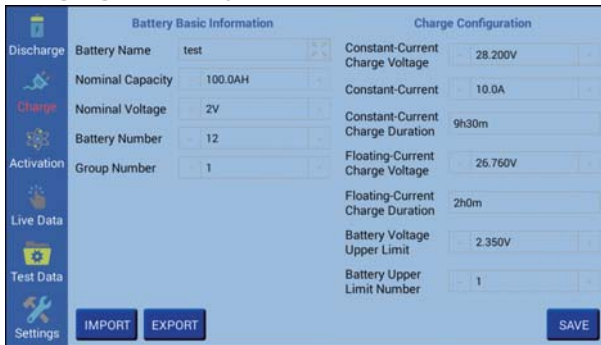


Concise Display & Menu Design



Discharge Setting

- **High-efficiency charging:** complete three-stage charging mode (constant current - constant voltage - floating charge) to ensure the battery group is fully charged and greatly improve the charging efficiency



Charge Setting

- **The whole group activation:** the charge and discharge rules and the number of activations can be freely set, achieve the whole battery group activation, and effectively increase the cell capacity



Activation Setting

- **Wireless monitoring module:** Wireless cell monitoring module is compatible with 2V/3.2V/6V/12V cell voltage monitoring, and each module monitors 4 cells at the same time. The monitoring module configuration is only 1/4 of the traditional module, and the connection is easier.



- **4 kinds of shutdown thresholds:** The host parameters can set four kinds of shutdown thresholds, discharge time, group end lower limit, pre-discharge capacity, and cell lower limit (lower limit quantity). According to the test requirements, turn on or off the pre-discharge capacity and the cell lower limit. Four thresholds are executed at the same time, and any parameter reaches the thresholds will stop testing.

- **Intelligent parameter setting:** According to the maintenance rules of battery charging and discharging, the built-in parameters of the instrument auto correlation, it simplifies the parameter setting and improves efficiency.



Intelligent Parameter Setting

- **Alarm function:** polarity reversal, over temperature, short circuit over current, fan failure, over voltage, excessive current, etc.
- **Manual pause function:** Manually pause during the test, and adjust the parameters according to the requirements, then continue testing without stopping the test.

## PC SOFTWARE

- Download the test data to PC for analysis from the host or USB
- Displayed items: cell voltage, current and capacity histogram, characteristic comparison data table, etc.
- Powerful capacity estimation function, which can estimate each cell capacity of the tested battery group in a short time.
- The collected data is displayed on the screen in the form of a column chart, a report, and a curve; and it can be zoomed in and out locally for easy observation
- Automatically generate EXCEL reports, makes the test data upload easily



# SPECIFICATIONS

	RNC ACT900	RNC ACT910
Group Voltage Range	10~285V	
Accuracy & Resolution	±0.3%FS+0.1V Accuracy: 0.1V	
Cell Voltage Range	0~15V	
Accuracy & Resolution	±0.2%FS+5mV Accuracy: 0.01V	
Discharge Current Range	0~150A	0~300A
Accuracy & Resolution	±0.5%FS+0.2A Accuracy: 0.1A	
Charge Current Range	0~100A	0~200A
Accuracy	±0.5%FS+0.2A	
Resolution	0.1A	
Charge Power (Max)	6.1 KW	13.2 KW
AC Power Supply	3 phase AC 380V/220V 50-60Hz	
Working Mode	discharge, charge, activation	
Voltage Data Recording	Group voltage recording & Wireless cell voltage recording	
Communication(PC)	WIFI, USB	
Protection	DC input over voltage, polarity reversal, discharge over current, over temperature	
Cooling Mode	Force air cooling mode	
Temperature/Humidity	working temperature range: -5~50 °C storage temperature: -40~70 °C relative humidity: 0-90%;	
Environment	altitude: 0~2000m, -5 °C ~ +50 °C full power altitude: 2000~4000m, -5 °C ~ +30 °C full power 30 °C ~ 50 °C reduced capacity	
Dimension (mm)	512x296x340mm	504x386x885mm
Weight (kg)	25KG	55KG

Accessories List			
ID	Pictures	Description	Qty
01		RNC ACT Main Unit	1
02		Power Cable(1 Red, 1 Black)	2
03		Wireless Modules for 2V, 6V, 12V	6
04		AC Power Supply Wire	1
05		Antenna Stick	2
06		USB Disk	1
07		User Manual	1
08		Carrying Case (Wooden case for customized type)	1

## OTHER OUR PRODUCTS

1

**RND8X0 series**  
12-280V Wide Range  
Battery Discharger &  
Capacity tester



2

**RND4815**  
Portable 48VDC  
Battery Discharger &  
Capacity tester



3

**RND200**  
Battery Discharge Cycler  
for 12V-96V Motive  
Batteries



4

**RNC ACT12**  
Single 2V/6V/12V  
Battery Activator &  
Discharger



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