



AT 8330A/B/C

MULTICHANNEL PROGRAMMABLE BATTERY SIMULATOR

CHINESE/ENGLISH
OPERATION

428 (W) * 89 (H) * 508 (D)
UNIT: mm

Weight: 15kg

High precision /24 channels
Voltage accuracy of 1/10,000

Smart Touch

Power mode, charge mode, State Quantity Test (SOC)
Sequence testing and real-time curve display

The AT833X series combines precision, flexibility and a high degree of integration. As a low-power, multi-channel super high Precision Programmable single-cell battery voltage simulator with voltage accuracy up to 1/10,000.

The AT833X series offers current measurement capabilities up to the nA level for battery testing in low-power devices Strong support. In terms of control, the AT8330 series offers flexible local



Power supply voltage: 200V-240VAC Frequency: 50Hz/60Hz

and remote operation options, allowing users to control and exchange data over local area network (LAN), RS232 or RS485 interfaces. With the help of advanced communication interface, users can easily edit test parameters through computer software and implement efficient automated test process.

APPLICATION FIELD

- New energy vehicles/drones/energy storage BMS (battery management system), CMS (overcapacity management system) test
- Research and development and testing of portable consumer electronic products, such as mobile phones, Bluetooth headsets, smart watches
- Voltage acquisition equipment testing, such as fuel cell CVM voltage inspection module



▲ 24CH terminal from the rear panel

HIGH INTEGRATION, SINGLE MACHINE SUPPORTS UP TO 24 CHANNELS

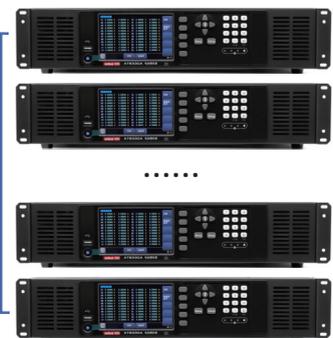
The AT833X series adopts a standard 19-inch 2U chassis, which can accommodate up to 24CH in a single machine. The channels are isolated from each other, and one device can test 24 stations at the same time, which greatly reduces the amount of equipment used in the test process and improves the test efficiency.

SUPPORT SERIES BETWEEN CHANNELS, SIMULATE THE OPERATING STATE OF THE BATTERY PACK

When multiple battery cells are required, multiple battery simulators can be used in series in multiple channels, and users can also perform remote control and other automatic test applications through the Ethernet standard interface.



Ethernet



MODEL	AT8330A	AT8330B	AT8330C
Output voltage range	6V/CH		5V/CH
Output current range	1A/CH		3A/CH
Output power range	6W/CH		15W/CH
Number of channels	24CH		
Range	0~1A		0~3A
Voltage setting resolution	0.01 mv	0.1 mv	
Voltage read back resolution			
Current setting resolution	0.01mA(1A range)	0.01mA	
Current read back resolution	0.01 μ A(1mA range)		
Voltage setting/read back accuracy	$\pm 0.01\%$, ± 0.1 mv	$\pm 0.01\%$, ± 0.6 mv	$\pm 0.01\%$, ± 0.4 mv
Current setting/read back accuracy	$\pm 0.05\%$, ± 0.1 mA	$\pm 0.05\%$, ± 0.5 mA	$\pm 0.05\%$, ± 0.2 mA
Ripple voltage	<2mV rms		
Ripple current	<2mA rms		
Load adjustment rate - output voltage	< 0.01% FS		
Load adjustment rate - Output current	< 0.01% FS		
Power adjustment rate - output voltage	< 0.01% FS		
Power adjustment rate - output current	< 0.01% FS		
Temperature coefficient	<20 ppm/ $^{\circ}$ c		
Voltage rise time	< 100 μ s		
Voltage rise time (full load)	< 100 μ s		
Voltage drop time	< 100 μ s		
Voltage drop time (full load)	< 100 μ s		
Dynamic response time	< 50 μ s		
Withstand voltage (output to Earth/output to output)	1000VDC/1000VDC		
Communication interface	LAN, RS232, RS485, and USB ports		
attachments	Power cable/communication cable/test cable (number of channels equals number of cables)		