

भिष्ठ म्हुस् हिंही

24-Channel Battery Simulator Datasheet



संस्ट म्हर्भिती

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HERE Multi-channel, high-precision battery simulator HTG IF

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Product Features

HX-EB-1400 series battery simulator features high-precision programmable, highly integrated, multi-channel output. It simulates the output state or the charging and discharging characteristics of real batteries, thus it can be used to replace batteries during the R&D and production test of electronic products.

• Equipped with standard 19-inch 3U chassis, up to 24 independent channels for each machine, with each channel isolated from each other to facilitate series connection of multi-channel.

• Support local/remote (LAN, RS232, CAN) communication control, LAN dual interface, convenient for site test.

• Adopt professional test software, support power mode, charging mode, SOC test, sequence test, realtime curve and other test functions.

* We can provide customized service according to customer product specifications and test and measurement requirements, please contact our sales staff for more information.

Product Advantages

High level of integration

• Support up to 24 power supply channels in a single machine.

• Isolation between channels, support multichannel series connection, able to simulate battery pack working state.

Compact and powerful

• Conveniently fitted in various sites, easy to install and maintain.

• Convenient for automated site testing.

Professional software

Simple interface, flexible operation.

• Meet the test requirements of multi-channel, multi-parameter, and complex test environment.

Simulate power characteristics

- Support SOC test, sequence test, real-time curve and other functions.
- Support µ A level current measurement.
- Ultra-fast dynamic response, voltage rise time <100 µ s.

Multiple communication interfaces

- Support LAN/RS232/CAN communication control.
- ◆ Single-channel programming communication response time ≤ 10ms.

Service Advantages



Deep plowing in the field of automotive electronics Self developed core technology



Short delivery cycle Fast and accurate Localized service team One-stop solution



Large volume of product shipments with rich application scenarios

HYC reserves the right to make improvements to the specifications and appearance of our products without notice.



Equipment Parameters

147	Category	THE T	Specification	147
	Current		1A/CH	
	Voltage		6V/CH	
Power			6W/H	
Nun	nber of channels		24CH	
	Measuring range		0~6V	
	Set resolution		0.1mV	
	Set precision(23±5°	:)	0.6mV+0.01%	1 K
Constant voltage mode	Read-back resolution	on	0.1mV	
	Read-back precision(23	±5℃)	0.6mV+0.01%	
	Temperature coefficie	ent	20ppm/℃	
	Long-term stability	,	80ppm/1000h	
	Measuring range		0~1A	
Constant curren	Set resolution		0.1mA	
mode	Set precision(23±5°		1mA+0.2%	K
(mascale)	Read-back resolution	on I G	0.1mA	
	Read-back precision(23	±5℃)	1mA+0.2%	
	Measuring range		0~1mA	
	Set resolution		0.1µA	
Constant curren [;]	Set precision(23±5%	2)	1µA+0.2%	
mode	Read-back resolution	n	0.1µA	
(µAscale)	Read-back precision(23	±5℃)	1µA+0.2%	
	Temperature coefficie	ent	30ppm/℃	
	Long-term stability		100ppm/1000h	
	Voltage rise time*1(no lo	bad)	< 100 µ s	
	Voltage rise time(pure resistar	ice full load)	< 100 µ s	
Dynamic	Voltage drop time ^{*2} (no l	oad)	< 3ms	
characteristics	Voltage drop time(pure resistar	nce full load)	< 100 µ s	
	Transient voltage dro	p⁺³	200mV	15
14H	Transient recovery tim	ne*4	< 100 µ s	ILT
	Load regulation	40	0.2mV	
	Withstand voltage(output to	ground)	1000VDC	
Others	Withstand voltage(channel to	o channel)	500VDC	
	Single-channel programming re	esponse time	< 10ms	
	Communication interfa	ace	LAN/RS232	

*3 Transient voltage drop: the maximum voltage drop value when the load changes abruptly from 10% to 90% under full voltage output.

■ *4 Transient recovery time: time it takes for the voltage to recover to within -50mV of the original voltage when the load changes abruptly from 10% to 90% under full voltage output.

In addition to the above specifications, this product can be customized and developed according to customer product specifications and test and measurement requirements.

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Equipment Model

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Serial number	Item Code	Model	Device name
	AP-02-01-10114-N	HX-EB-1400	24-Channel battery simulator

Equipment Specification

	Cate	gory	Specification	
	Equipment model		HX-EB-1400	
	Equipment dimensions		L 482 mm × W 599 mm × H 147.5 mm	
	Weight		About 20kg	
Pov		r input	AC 220V, frequency 47~63Hz	
	Rated current		3.5A	
	Environmental requirement	Temperature	Working temperature: 0℃ ~40℃ Storage temperature: −20℃ ~60℃	
		Relative humidity	5%~90% (No condensation)	
		Altitude	< 2000m	
		Air pressure	80~110Kpa	

Equipment Size



Manual No. HYC-RD-15-010-2023-EN B00 February 2024

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