

N9000 Series Ultra-high Integration Dual-quadrant Modular Battery Simulator



Product Introduction

N9000 is an ultra-high integration dual-quadrant modular battery simulator with high real-time, high-synchronous, high-power, consisting of N9000 measurement and control chassis and a variety of modules. N9000 is a standard chassis with 4U height and 19-inch width, support for the insertion of battery simulation modules, programmable resistance modules, high-voltage power supply modules and other types, the chassis can be integrated into 10 slot measurement and control modules, electrical isolation of the modules. N9000 series supports local/remote control and synchronous trigger function, which can realize multi-module high-speed synchronous control, and is widely applicable to multi-channel, high-integrity, high-power automated test and measurement scenarios.

The NB101 series is a high-precision, dual-quadrant programmable battery simulation module that supports voltage accuracy up to 0.1 mV and μA -level current measurement. It is equipped with various test functions such as power mode, SOC simulation, sequence test, graph and fault simulation. It can meet the requirements of BMS HIL test system, AFE chip, energy storage, electric vehicle, electric two-wheeler/tricycle, base station power supply, and other multi-scenario BMS test applications.

NB102 series is a high-precision, multi-channel programmable resistance module, resistance range: $0\Omega\sim11.11M\Omega$, programming accuracy up to 0.1%. The flexible design supports 12/24/36 channels with a resolution up to 1Ω , which can be widely used in simulation test scenarios such as NTC resistors and resistive sensors.

NB106 is a programmable high-voltage power supply module, the product has 1200V/2500V voltage output specifications, voltage accuracy is as high as 0.05%+0.05% F.S., supports CV, CC, SEQ, Sweep and other operating modes, and can be widely used in automotive BMS, energy storage BMS and other scenarios.

Main Features

- High accuracy:voltage accuracy up to 0.1mV/0.5mV
- ▶ High integration:36CH cell simulation+36CH fault simulation+36CH temperature simulation integrated in 19inch/4U chassis
- Modular design:easy for wiring and expansion
- ► High speed response:response time≤1ms
- ► Each channel isolated, series connection available
- μA level current measurement
- LAN port and CANFD interface; dual LAN ports, convenient for cascade application

Modular design for convenient operation and flexible expansion

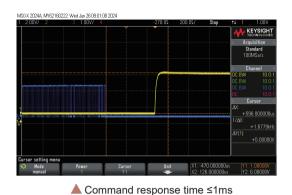
N9000 is an ultra-high integration dual-quadrant modular battery simulator. The standard chassis can integrate 32 channels of single cell simulation, 32 channels of battery fault simulation and 36 channels of temperature simulation and a channel total voltage simulation, which effectively saves users' space. Single module with 4 channels for battery simulation, single module with 12/24/36 channels optional for temperature simulation, high voltage power module 1200V/2500V selectable. With multiple models, users can choose products according to the actual needs, which is convenient for subsequent expansion.

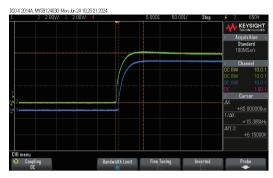




High speed response, high speed synchronization, high throughput data

As a high real-time, high-synchronous measurement and control platform, the N9000 series supports Gigabit LAN and CANFD communication, hardware synchronous triggering and high-speed synchronous clocks, with command response speed of ≤1ms and multi-channel synchronization of ≤200µs, which is particularly suitable for high-speed simulation test such as BMS HIL.

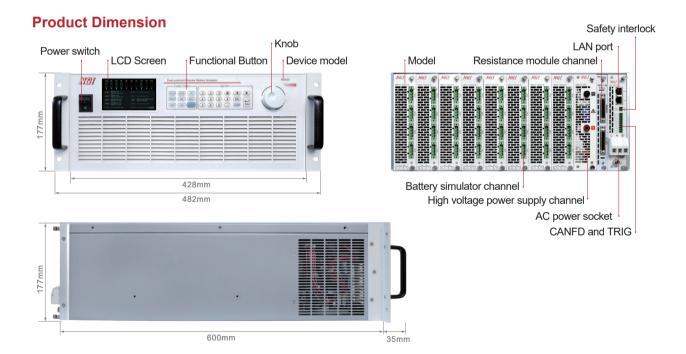




Channel synchronization + rise time up to 65μs

High precision, matching BMS and AFE chip trends

AFE chip is the core component of BMS, with the management getting more and more refined, the voltage acquisition accuracy of AFE chip and BMS is getting higher and higher. NGI has launched 0.1mV ultra-high precision battery simulator since 2016, which has been widely recognized by the industry and become the first choice for AFE chip testing. The modular battery simulator launched under the N9000 measurement and control platform supports 0.1mV and 0.5mV voltage accuracy, which can meet the industry's high-precision testing needs.





Product Selection (1): 0.1mV Voltage Accuracy Battery Simulator

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Product Model	Specification	Module Model	Qty	Specification	
N9108-06-01	6V/±1A/8CH Battery simulator	N9000	1	Measurement and control chassis	
119100-00-01	Voltage accuracy:0.1mV	NB101-06-01-A	2	6V/±1A/4CH	
N9112-06-01	6V/±1A/12CH Battery simulator	N9000	1	Measurement and control chassis	
119112-00-01	Voltage accuracy:0.1mV	NB101-06-01-A	3	6V/±1A/4CH	
NIO44C OC O4	6V/±1A/16CH Battery simulator	N9000	1	Measurement and control chassis	
N9116-06-01	Voltage accuracy:0.1mV	NB101-06-01-A	4	6V/±1A/4CH	
NO420 06 04	6V/±1A/20CH Battery simulator	N9000	1	Measurement and control chassis	
N9120-06-01	Voltage accuracy:0.1mV	NB101-06-01-A	5	6V/±1A/4CH	
N9124-06-01	6V/±1A/24CH Battery simulator	N9000	1	Measurement and control chassis	
119124-00-01	Voltage accuracy:0.1mV	NB101-06-01-A	6	6V/±1A/4CH	
N9128-06-01	6V/±1A/28CH Battery simulator	N9000	1	Measurement and control chassis	
119120-00-01	Voltage accuracy:0.1mV	NB101-06-01-A	7	6V/±1A/4CH	
N9132-06-01	6V/±1A/32CH Battery simulator Voltage accuracy:0.1mV	N9000	1	Measurement and control chassis	
119132-00-01		NB101-06-01-A	8	6V/±1A/4CH	
N9136-06-01	6V/±1A/36CH Battery simulator Voltage accuracy:0.1mV	N9000	1	Measurement and control chassis	
143 130-00-01		NB101-06-01-A	9	6V/±1A/4CH	
N9108-06-05	6V/±5A/8CH Battery simulator Voltage accuracy:0.1mV	N9000	1	Measurement and control chassis	
100-00-05		NB101-06-05-A	2	6V/±5A/4CH	
N9112-06-05	6V/±5A/12CH Battery simulator	N9000	1	Measurement and control chassis	
N9112-00-05	Voltage accuracy:0.1mV	NB101-06-05-A	3	6V/±5A/4CH	
N9116-06-05	6V/±5A/16CH Battery simulator	N9000	1	Measurement and control chassis	
N9110-00-05	Voltage accuracy:0.1mV	NB101-06-05-A	4	6V/±5A/4CH	
N9120-06-05	6V/±5A/20CH Battery simulator Voltage accuracy:0.1mV	N9000	1	Measurement and control chassis	
N9120-00-05		NB101-06-05-A	5	6V/±5A/4CH	
N9124-06-05	6V/±5A/24CH Battery simulator	N9000	1	Measurement and control chassis	
113124-00-00	Voltage accuracy:0.1mV	NB101-06-05-A	6	6V/±5A/4CH	
N9128-06-05	6V/±5A/28CH Battery simulator	N9000	1	Measurement and control chassis	
113120-00-00	Voltage accuracy:0.1mV	NB101-06-05-A	7	6V/±5A/4CH	
N9132-06-05	6V/±5A/32CH Battery simulator	N9000	1	Measurement and control chassis	
132-00-03	Voltage accuracy:0.1mV	NB101-06-05-A	8	6V/±5A/4CH	
	6V/±5A/36CH Battery simulator	N9000	1	Measurement and control chassis	
	Voltage accuracy:0.1mV	NB101-06-05-A	9	6V/±5A/4CH	



Product Selection (2): 0.5mV Voltage Accuracy Battery Simulator

Product Model Specification Module Model Qty Specification N9008-06-01 6V/±1A/3CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9012-06-01 6V/±1A/12CH Battery simulator Voltage accuracy: 0.5mV N8101-06-01-B 2 6V/±1A/4CH N9020-06-01 6V/±1A/16CH Battery simulator Voltage accuracy: 0.5mV N8101-06-01-B 3 6V/±1A/4CH N9024-06-01 6V/±1A/2CH Battery simulator Voltage accuracy: 0.5mV N8101-06-01-B 4 6V/±1A/4CH N9024-06-01 6V/±1A/2CH Battery simulator Voltage accuracy: 0.5mV N8101-06-01-B 5 6V/±1A/4CH N9028-06-01 6V/±1A/32CH Battery simulator Voltage accuracy: 0.5mV N8101-06-01-B 6 6V/±1A/4CH N9036-06-01 6V/±1A/32CH Battery simulator Voltage accuracy: 0.5mV N8101-06-01-B 7 6V/±1A/4CH N9036-06-01 6V/±1A/3CH Battery simulator Voltage accuracy: 0.5mV N8101-06-01-B 6 6V/±1A/4CH N9008-06-05 6V/±5A/3CH Battery simulator Voltage accuracy: 0.5mV N8101-06-01-B 6 6V/±1A/4CH N9012-06-05 6V/±5A/12CH Battery simulator Voltage accuracy: 0	Draduat Madal	C.,:f:t:			Configuration	
N9008-06-01 Voltage accuracy: 0.5mV NB101-06-01-B 2 6V/±1A/4CH N9012-06-01 6V/±1A/12CH Battery simulator Voltage accuracy: 0.5mV NB101-06-01-B 3 6V/±1A/4CH N9016-06-01 6V/±1A/16CH Battery simulator Voltage accuracy: 0.5mV NB101-06-01-B 3 6V/±1A/4CH N9020-06-01 6V/±1A/20CH Battery simulator Voltage accuracy: 0.5mV NB101-06-01-B 4 6V/±1A/4CH N9024-06-01 6V/±1A/24CH Battery simulator Voltage accuracy: 0.5mV NB101-06-01-B 5 6V/±1A/4CH N9028-06-01 6V/±1A/28CH Battery simulator Voltage accuracy: 0.5mV NB101-06-01-B 6 6V/±1A/4CH N9032-06-01 6V/±1A/32CH Battery simulator Voltage accuracy: 0.5mV NB101-06-01-B 7 6V/±1A/4CH N9036-06-01 6V/±1A/32CH Battery simulator Voltage accuracy: 0.5mV NB101-06-01-B 8 6V/±1A/4CH N9008-06-05 6V/±5A/8CH Battery simulator Voltage accuracy: 0.5mV NB101-06-01-B 9 6V/±5A/4CH N9016-06-05 6V/±5A/2CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 2 6V/±5A/4CH N9024-06-05 6V/±5A/2CH Battery simulator Voltage accuracy: 0.5mV <th>Product Model</th> <th>Specification</th> <th>Module Model</th> <th>Qty</th> <th>Specification</th>	Product Model	Specification	Module Model	Qty	Specification	
None	N0000 06 04	6V/±1A/8CH Battery simulator	N9000	1	Measurement and control chassis	
N9012-06-01 Voltage accuracy: 0.5mV NB101-06-01-B 3 6V/±1A/4CH N9016-06-01 6V/±1A/16CH Battery simulator Voltage accuracy: 0.5mV NB101-06-01-B 4 6V/±1A/4CH N9020-06-01 6V/±1A/2CCH Battery simulator Voltage accuracy: 0.5mV NB101-06-01-B 4 6V/±1A/4CH N9024-06-01 6V/±1A/2CH Battery simulator Voltage accuracy: 0.5mV NB101-06-01-B 5 6V/±1A/4CH N9028-06-01 6V/±1A/28CH Battery simulator Voltage accuracy: 0.5mV NB101-06-01-B 6 6V/±1A/4CH N9032-06-01 6V/±1A/28CH Battery simulator Voltage accuracy: 0.5mV NB101-06-01-B 6 6V/±1A/4CH N9036-06-01 6V/±1A/36CH Battery simulator Voltage accuracy: 0.5mV NB101-06-01-B 7 6V/±1A/4CH N9008-06-05 6V/±5A/8CH Battery simulator Voltage accuracy: 0.5mV NB101-06-01-B 8 6V/±1A/4CH N9012-06-05 6V/±5A/16CH Battery simulator Voltage accuracy: 0.5mV NB101-06-01-B 9 6V/±5A/4CH N9016-06-05 6V/±5A/2CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 2 6V/±5A/4CH N9024-06-05 6V/±5A/2CH Battery simulator Voltage accuracy: 0.5mV	119006-06-01	Voltage accuracy:0.5mV	NB101-06-01-B	2	6V/±1A/4CH	
N9016-06-01 N9016-06-01 N8101-06-01-B 3 6V/±1A/4CH	NQ012-06-01		N9000	1	Measurement and control chassis	
N9016-06-01 Voltage accuracy: 0.5mV NB101-06-01-B 4 6V/±1A/4CH N9020-06-01 6V/±1A/20CH Battery simulator Voltage accuracy: 0.5mV NB101-06-01-B 5 6V/±1A/4CH N9024-06-01 6V/±1A/24CH Battery simulator Voltage accuracy: 0.5mV NB101-06-01-B 6 6V/±1A/4CH N9028-06-01 6V/±1A/28CH Battery simulator Voltage accuracy: 0.5mV NB101-06-01-B 6 6V/±1A/4CH N9032-06-01 6V/±1A/32CH Battery simulator Voltage accuracy: 0.5mV NB101-06-01-B 7 6V/±1A/4CH N9036-06-01 6V/±1A/3CH Battery simulator Voltage accuracy: 0.5mV NB101-06-01-B 8 6V/±1A/4CH N9036-06-05 6V/±5A/8CH Battery simulator Voltage accuracy: 0.5mV NB101-06-01-B 9 6V/±1A/4CH N9008-06-05 6V/±5A/8CH Battery simulator Voltage accuracy: 0.5mV NB101-06-01-B 9 6V/±5A/4CH N9012-06-05 6V/±5A/4CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 3 6V/±5A/4CH N9020-06-05 6V/±5A/2CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 4 6V/±5A/4CH N9024-06-05 6V/±5A/2CH Battery simulator Voltage accuracy: 0.5mV	119012-00-01	Voltage accuracy:0.5mV	NB101-06-01-B	3	6V/±1A/4CH	
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N9020-06-01 Voltage accuracy: 0.5mV NB101-06-01-B 5 6V/±1A/4CH N9024-06-01 6V/±1A/24CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9028-06-01 6V/±1A/28CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9032-06-01 6V/±1A/32CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9036-06-01 6V/±1A/36CH Battery simulator Voltage accuracy: 0.5mV NB101-06-01-B 8 6V/±1A/4CH N9008-06-05 6V/±5A/8CH Battery simulator Voltage accuracy: 0.5mV NB101-06-01-B 9 6V/±1A/4CH N9008-06-05 6V/±5A/12CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 2 6V/±5A/4CH N9016-06-05 6V/±5A/16CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 3 6V/±5A/4CH N9020-06-05 6V/±5A/20CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 4 6V/±5A/4CH N9024-06-05 6V/±5A/24CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 5 6V/±5A/4CH N9028-06-05 6V/±5A/28CH Batt	N9016-06-01	Voltage accuracy:0.5mV	NB101-06-01-B	4	6V/±1A/4CH	
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N9028-06-01 Voltage accuracy:0.5mV NB101-06-01-B 7 6V/±1A/4CH N9032-06-01 6V/±1A/32CH Battery simulator Voltage accuracy:0.5mV N9000 1 Measurement and control chassis N9036-06-01 6V/±1A/36CH Battery simulator Voltage accuracy:0.5mV N9000 1 Measurement and control chassis N9008-06-05 6V/±5A/8CH Battery simulator Voltage accuracy:0.5mV N9000 1 Measurement and control chassis N9012-06-05 6V/±5A/12CH Battery simulator Voltage accuracy:0.5mV N8101-06-05-B 2 6V/±5A/4CH N9016-06-05 6V/±5A/16CH Battery simulator Voltage accuracy:0.5mV N8101-06-05-B 3 6V/±5A/4CH N9020-06-05 6V/±5A/20CH Battery simulator Voltage accuracy:0.5mV N8101-06-05-B 4 6V/±5A/4CH N9024-06-05 6V/±5A/24CH Battery simulator Voltage accuracy:0.5mV N8101-06-05-B 5 6V/±5A/4CH N9028-06-05 6V/±5A/28CH Battery simulator Voltage accuracy:0.5mV N8101-06-05-B 6 6V/±5A/4CH N9032-06-05 6V/±5A/32CH Battery simulator Voltage accuracy:0.5mV N8000 1 Measurement and control chassis NB101-06-05-B 6 6V/±5A/4CH	119024-00-01	Voltage accuracy:0.5mV	NB101-06-01-B	6	6V/±1A/4CH	
N9032-06-01 6V/±1A/32CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9036-06-01 6V/±1A/36CH Battery simulator Voltage accuracy: 0.5mV N8101-06-01-B 8 6V/±1A/4CH N9008-06-05 6V/±5A/8CH Battery simulator Voltage accuracy: 0.5mV N8101-06-01-B 9 6V/±1A/4CH N9012-06-05 6V/±5A/8CH Battery simulator Voltage accuracy: 0.5mV N8101-06-01-B 9 6V/±5A/4CH N9012-06-05 6V/±5A/12CH Battery simulator Voltage accuracy: 0.5mV N8101-06-05-B 2 6V/±5A/4CH N9020-06-05 6V/±5A/16CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9024-06-05 6V/±5A/20CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9024-06-05 6V/±5A/24CH Battery simulator Voltage accuracy: 0.5mV N8101-06-05-B 5 6V/±5A/4CH N9028-06-05 6V/±5A/28CH Battery simulator Voltage accuracy: 0.5mV N8101-06-05-B 6 6V/±5A/4CH N9032-06-05 6V/±5A/32CH Battery simulator Voltage accuracy: 0.5mV N8101-06-05-B 6 6V/±5A/4CH N9000	N0028 06 01		N9000	1	Measurement and control chassis	
N9032-06-01 Voltage accuracy: 0.5mV NB101-06-01-B 8 6V/±1A/4CH N9036-06-01 6V/±1A/36CH Battery simulator Voltage accuracy: 0.5mV NB101-06-01-B 9 6V/±1A/4CH N9008-06-05 6V/±5A/8CH Battery simulator Voltage accuracy: 0.5mV NB101-06-01-B 9 6V/±5A/4CH N9012-06-05 6V/±5A/12CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 2 6V/±5A/4CH N9016-06-05 6V/±5A/16CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 3 6V/±5A/4CH N9020-06-05 6V/±5A/20CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 4 6V/±5A/4CH N9024-06-05 6V/±5A/24CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 5 6V/±5A/4CH N9028-06-05 6V/±5A/28CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 6 6V/±5A/4CH N9032-06-05 6V/±5A/32CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 7 6V/±5A/4CH N9036-06-05 6V/±5A/3CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 8 6V/±5A/4CH N9036-06-05 6V/±5A/3CH Battery simulator Voltage accuracy: 0.5mV <td>119020-00-01</td> <td>Voltage accuracy:0.5mV</td> <td>NB101-06-01-B</td> <td>7</td> <td>6V/±1A/4CH</td>	119020-00-01	Voltage accuracy:0.5mV	NB101-06-01-B	7	6V/±1A/4CH	
N9036-06-01 Voltage accuracy: 0.5mV NB101-06-01-B 8 6V/±1A/4CH N9036-06-01 6V/±1A/36CH Battery simulator Voltage accuracy: 0.5mV NB101-06-01-B 9 6V/±1A/4CH N9008-06-05 6V/±5A/8CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 2 6V/±5A/4CH N9012-06-05 6V/±5A/12CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 3 6V/±5A/4CH N9016-06-05 6V/±5A/16CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 4 6V/±5A/4CH N9020-06-05 6V/±5A/20CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 4 6V/±5A/4CH N9024-06-05 6V/±5A/24CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 5 6V/±5A/4CH N9028-06-05 6V/±5A/28CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 6 6V/±5A/4CH N9032-06-05 6V/±5A/32CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 7 6V/±5A/4CH N9032-06-05 6V/±5A/3CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 7 6V/±5A/4CH N9000 1 Measurement and control chassis	N0032 06 01	6V/±1A/32CH Battery simulator	N9000	1	Measurement and control chassis	
N9036-06-01 Voltage accuracy: 0.5mV NB101-06-01-B 9 6V/±1A/4CH N9008-06-05 6V/±5A/8CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9012-06-05 6V/±5A/12CH Battery simulator Voltage accuracy: 0.5mV N8101-06-05-B 2 6V/±5A/4CH N9016-06-05 6V/±5A/12CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9020-06-05 6V/±5A/16CH Battery simulator Voltage accuracy: 0.5mV N8101-06-05-B 4 6V/±5A/4CH N9024-06-05 6V/±5A/20CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9028-06-05 6V/±5A/24CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9032-06-05 6V/±5A/32CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9032-06-05 6V/±5A/32CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9036-06-05 6V/±5A/36CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis	119032-00-01	Voltage accuracy:0.5mV	NB101-06-01-B	8	6V/±1A/4CH	
N9008-06-05 6V/±5A/8CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9012-06-05 6V/±5A/12CH Battery simulator Voltage accuracy: 0.5mV N8101-06-05-B 2 6V/±5A/4CH N9016-06-05 6V/±5A/12CH Battery simulator Voltage accuracy: 0.5mV N8101-06-05-B 3 6V/±5A/4CH N9016-06-05 6V/±5A/16CH Battery simulator Voltage accuracy: 0.5mV N8101-06-05-B 4 6V/±5A/4CH N9020-06-05 6V/±5A/20CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9024-06-05 6V/±5A/24CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9028-06-05 6V/±5A/28CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9032-06-05 6V/±5A/32CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9032-06-05 6V/±5A/32CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9036-06-05 6V/±5A/36CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis	N10000 00 04	6V/±1A/36CH Battery simulator	N9000	1	Measurement and control chassis	
N9008-06-05 Voltage accuracy: 0.5mV NB101-06-05-B 2 6V/±5A/4CH N9012-06-05 6V/±5A/12CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 3 6V/±5A/4CH N9016-06-05 6V/±5A/16CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 4 6V/±5A/4CH N9020-06-05 6V/±5A/20CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9024-06-05 6V/±5A/24CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9028-06-05 6V/±5A/28CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9032-06-05 6V/±5A/32CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9036-06-05 6V/±5A/36CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N8101-06-05-B 6V/±5A/4CH N9000 1 Measurement and control chassis N8101-06-05-B 6V/±5A/4CH N8101-06-05-B 6V/±5A/4CH N8000 1 Measurement and control chassis	119036-06-01	Voltage accuracy:0.5mV	NB101-06-01-B	9	6V/±1A/4CH	
N9012-06-05 Voltage accuracy: 0.5mV NB101-06-05-B 2 6V/±5A/4CH N9012-06-05 6V/±5A/12CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9016-06-05 6V/±5A/16CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9020-06-05 6V/±5A/20CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9024-06-05 6V/±5A/24CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9028-06-05 6V/±5A/28CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9032-06-05 6V/±5A/32CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9036-06-05 6V/±5A/36CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9036-06-05 6V/±5A/36CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9000 1 Measurement and control chassis NB101-06-05-B 6V/±5A/4CH	N10000 06 05	OV/13/7/OCIT Dattery Simulator	N9000	1	Measurement and control chassis	
N9012-06-05 Voltage accuracy: 0.5mV NB101-06-05-B 3 6V/±5A/4CH N9016-06-05 6V/±5A/16CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 4 6V/±5A/4CH N9020-06-05 6V/±5A/20CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 4 6V/±5A/4CH N9024-06-05 6V/±5A/24CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 5 6V/±5A/4CH N9028-06-05 6V/±5A/28CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 6 6V/±5A/4CH N9032-06-05 6V/±5A/32CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 7 6V/±5A/4CH N9032-06-05 6V/±5A/36CH Battery simulator Voltage accuracy: 0.5mV NB000 1 Measurement and control chassis N9000 1 Measurement and control chassis NB101-06-05-B 8 6V/±5A/4CH N9036-06-05 6V/±5A/36CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 8 6V/±5A/4CH N9000 1 Measurement and control chassis NB101-06-05-B 8 6V/±5A/4CH	119006-06-05		NB101-06-05-B	2	6V/±5A/4CH	
N9016-06-05 Voltage accuracy: 0.5mV NB101-06-05-B 3 6V/±5A/4CH N9016-06-05 6V/±5A/16CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9020-06-05 6V/±5A/20CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9024-06-05 6V/±5A/24CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9028-06-05 6V/±5A/28CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9032-06-05 6V/±5A/32CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 7 6V/±5A/4CH N9000 1 Measurement and control chassis NB101-06-05-B 6V/±5A/4CH N9036-06-05 6V/±5A/36CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 8 6V/±5A/4CH N9000 1 Measurement and control chassis NB101-06-05-B 8 6V/±5A/4CH	N0042 06 05	6V/±5A/12CH Battery simulator	N9000	1	Measurement and control chassis	
N9016-06-05 Voltage accuracy: 0.5mV NB101-06-05-B 4 6V/±5A/4CH N9020-06-05 6V/±5A/20CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 5 6V/±5A/4CH N9024-06-05 6V/±5A/24CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9028-06-05 6V/±5A/28CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9032-06-05 6V/±5A/32CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 7 6V/±5A/4CH N9036-06-05 6V/±5A/36CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 8 6V/±5A/4CH N9036-06-05 6V/±5A/36CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 8 6V/±5A/4CH N9036-06-05 6V/±5A/36CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 8 6V/±5A/4CH	119012-06-05	Voltage accuracy:0.5mV	NB101-06-05-B	3	6V/±5A/4CH	
N9020-06-05 6V/±5A/20CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9024-06-05 6V/±5A/24CH Battery simulator Voltage accuracy: 0.5mV N8101-06-05-B 5 6V/±5A/4CH N9028-06-05 6V/±5A/24CH Battery simulator Voltage accuracy: 0.5mV N8101-06-05-B 6 6V/±5A/4CH N9028-06-05 6V/±5A/28CH Battery simulator Voltage accuracy: 0.5mV N8101-06-05-B 7 6V/±5A/4CH N9032-06-05 6V/±5A/32CH Battery simulator Voltage accuracy: 0.5mV N8101-06-05-B 7 6V/±5A/4CH N9000 1 Measurement and control chassis N8101-06-05-B 8 6V/±5A/4CH N9036-06-05 6V/±5A/36CH Battery simulator Voltage accuracy: 0.5mV N8101-06-05-B 8 6V/±5A/4CH N9000 1 Measurement and control chassis N8101-06-05-B 8 6V/±5A/4CH	N10040 00 05	6V/±5A/16CH Battery simulator	N9000	1	Measurement and control chassis	
N9020-06-05 OV/±SA/20CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 5 6V/±5A/4CH N9024-06-05 6V/±5A/24CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 6 6V/±5A/4CH N9028-06-05 6V/±5A/28CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9032-06-05 6V/±5A/32CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9036-06-05 6V/±5A/36CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 8 6V/±5A/4CH N9036-06-05 6V/±5A/36CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 8 6V/±5A/4CH N9000 1 Measurement and control chassis NB101-06-05-B 8 6V/±5A/4CH	N9016-06-05	Voltage accuracy:0.5mV	NB101-06-05-B	4	6V/±5A/4CH	
N9020-06-05 Voltage accuracy: 0.5mV NB101-06-05-B 5 6V/±5A/4CH N9024-06-05 6V/±5A/24CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9028-06-05 6V/±5A/28CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9032-06-05 6V/±5A/32CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9036-06-05 6V/±5A/36CH Battery simulator Voltage accuracy: 0.5mV NB101-06-05-B 8 6V/±5A/4CH N9000 1 Measurement and control chassis NB101-06-05-B 8 6V/±5A/4CH	N10000 00 05	6V/±5A/20CH Battery simulator	N9000	1	Measurement and control chassis	
N9024-06-05 Voltage accuracy: 0.5mV NB101-06-05-B 6 6V/±5A/4CH N9028-06-05 6V/±5A/28CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9032-06-05 6V/±5A/32CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9036-06-05 6V/±5A/36CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9036-06-05 6V/±5A/36CH Battery simulator Voltage N9000 1 Measurement and control chassis	N9020-06-05		NB101-06-05-B	5	6V/±5A/4CH	
N9028-06-05 6V/±5A/28CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9032-06-05 6V/±5A/32CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9032-06-05 6V/±5A/32CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9036-06-05 6V/±5A/36CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9036-06-05 6V/±5A/36CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis	N0004 06 05	6V/±5A/24CH Battery simulator	N9000	1	Measurement and control chassis	
N9028-06-05 Voltage accuracy: 0.5mV NB101-06-05-B 7 6V/±5A/4CH N9032-06-05 6V/±5A/32CH Battery simulator Voltage accuracy: 0.5mV N9000 1 Measurement and control chassis N9036-06-05 6V/±5A/36CH Battery simulator Voltage N9000 1 Measurement and control chassis N9036-06-05 6V/±5A/36CH Battery simulator Voltage N9000 1 Measurement and control chassis	N9024-06-05		NB101-06-05-B	6	6V/±5A/4CH	
Voltage accuracy:0.5mV NB101-06-05-B 7 6V/±5A/4CH N9002-06-05 6V/±5A/32CH Battery simulator Voltage accuracy:0.5mV NB101-06-05-B 8 6V/±5A/4CH N9000 1 Measurement and control chassis 6V/±5A/4CH N9000 1 Measurement and control chassis	N0000 06 05		N9000	1	Measurement and control chassis	
N9032-06-05 Voltage accuracy: 0.5mV N8101-06-05-B 8 6V/±5A/4CH N9000 1 Measurement and control chassis	119020-00-05		NB101-06-05-B	7	6V/±5A/4CH	
N9032-06-05 Voltage accuracy: 0.5mV NB101-06-05-B 8 6V/±5A/4CH N9000 1 Measurement and control chassis	N10033 06 05	OV/10/ VOZOTI Battory cimalator	N9000	1	Measurement and control chassis	
N9036-06-05	N9U3Z-U0-U3		NB101-06-05-B	8	6V/±5A/4CH	
Voltage accuracy: 0.5mV NB101-06-05-B 9 6V/+5A/4CH	N0000 00 05	6V/±5A/36CH Battery simulator	N9000	1	Measurement and control chassis	
	N9036-06-05		NB101-06-05-B	9	6V/±5A/4CH	



Product Selection (3): Temperature Simulation Module

Optional-Temperature Simulation Module				
Model	Specification	Model	Specification	
NB102-01-12	1.11MΩ/1Ω/12CH	NB102-11-12	11.11ΜΩ/10Ω/12CH	
NB102-01-24	1.11ΜΩ/1Ω/24CH	NB102-11-24	11.11ΜΩ/10Ω/24CH	
NB102-01-36	1.11ΜΩ/1Ω/36CH	NB102-11-36	11.11ΜΩ/10Ω/36CH	
NB102-A6-12	600kΩ/1Ω/12CH	NB102-06-12	6ΜΩ/10Ω/12CH	
NB102-A6-24	600kΩ/1Ω/24CH	NB102-06-24	6ΜΩ/10Ω/24CH	
NB102-A6-36	600kΩ/1Ω/36CH	NB102-06-36	6ΜΩ/10Ω/36CH	

[Note]:

- Single battery simulator supports one NB102 series module insertion.
 600kΩ, 6MΩ models support NTC short circuit simulation, NTC open circuit simulation.

Product Selection (4): Programming High Voltage Power Supply Module

Model	Specification	Model	Specification
NB106-1200	1200V/100mA/120W/1CH	NB106-2500	2500V/100mA/250W/1CH

NB106 series and NB101 series share the same slot, a N9000 can support up to NB106 series modules*9pcs.



Battery Simulator Module Specification (1)

Model	NB101	I-06-01-A	NB101-06-05-A		
Current	±1A/CH		±5A/CH		
Voltage	6V/CH		6V/CH		
Power	6W/CH		30W/CH		
Channels	4CH				
		CV Mode			
Range	0-6V				
Setting Resolution	0.01mV				
Setting Accuracy(23±5°C)		0.1m	٦V		
Readback Resolution		0.01r	mV		
Readback Accuracy(23±5°C)		0.1n	٦V		
Temperature Coefficient(0~40°C)		20ppn	n/°C		
Voltage Ripple Noise	≤2mVrms				
		CC Mode			
Range	-1-1A	-1~1mA	-5-5A	-1~1mA	
Setting Resolution	0.1mA	0.1µA	0.1mA	0.1µA	
Setting Accuracy(23±5°C)	1mA	1µA	5mA	1µA	
Readback Resolution	0.1mA	0.1µA	0.1mA	0.1µA	
Readback Accuracy(23±5°C)	1mA	1µA	5mA	1µA	
Temperature Coefficient(0~40°C)					
Dynamic Characteristic					
Voltage Rise Time	≤40µs(No load, 10%-90% variation time)				
Voltage Rise Time	≤40µs(Pure resistive full load, 10%-90% variation time)				
Voltage Fall Time	≤100µs(No load, 90%-10% variation time)				
Voltage Fall Time	≤100µs(Pure resistive full load, 90%-10% variation time)				
Transient Recovery Time	<100µs(Pure resistive load, 10%-90% variation time)				
	Fault Simulation				
Supportable Functions	Positive and negative short circuit, positive and negative open circuit, polarity reversal simulation				
	Other				
Isolation(output to ground)	2000V DC				
Isolation(channel and channel)					
Temperature	Working temperature: 0°C~40°C; Storage temperature: -20°C~60°C				
Operating Environment	Altitude: <2000m; relative humidity: 5%~90%RH (no condensation); operating air pressure: 80~110kPa				
Dimension	Single module single slot, one N9000 chassis support 9 single module insertion				

Note 1: For other specifications, please contact NGI.

Note 2: All specifications are subject to change without notice.



Battery Simulator Module Specification (2)

Model NB101-06-01-B NB101-06-05-B			-06-05-B		
Current	±1A/CH		±5A/CH		
Voltage	6V/CH		6V/CH		
Power	6W/CH		30W/CH		
Channels	4CH				
		CV Mode			
Range		0-6	V		
Setting Resolution		0.1m	ıV		
Setting Accuracy(23±5°C)		0.5m	ıV		
Readback Resolution		0.1m	ıV		
Readback Accuracy(23±5°C)		0.5m	ıV		
Temperature Coefficient(0~40°C)		20ppn	n/°C		
Voltage Ripple Noise	≤2mVrms				
	CC Mode				
Range	-1-1A	-1~1mA	-5-5A	-1~1mA	
Setting Resolution	0.1mA	0.1µA	0.1mA	0.1μΑ	
Setting Accuracy(23±5°C)	1mA	1µA	5mA	1µA	
Readback Resolution	0.1mA	0.1µA	0.1mA	0.1µA	
Readback Accuracy(23±5°C)	1mA	1µA	5mA	1µA	
Temperature Coefficient(0~40°C)		50pp	om/°C		
	Dynamic Characteristic				
Voltage Rise Time	≤40µs(No load, 10%-90% variation time)				
Voltage Rise Time	≤40µs(Pure resistive full load, 10%-90% variation time)				
Voltage Fall Time	≤100µs(No load, 90%-10% variation time)				
Voltage Fall Time	≤100µs(Pure resistive full load, 90%-10% variation time)				
Transient Recovery Time	<100µs(Pure resistive load, 10%-90% variation time)				
		Fault Simulation			
Supportable Functions	Positive and negative short circuit, positive and negative open circuit, polarity reversal simulation				
Is a lating (a vitro vit to a may ve d)		Other			
Isolation(output to ground)	2000V DC				
Isolation(channel and channel)					
Temperature	Working temperature: 0°C~40°C; Storage temperature: -20°C~60°C				
Operating Environment	Altitude: <2000m; relative humidity: 5%~90%RH (no condensation); operating air pressure: 80~110kPa Single module single slot, one N9000 chassis support 9 single module insertion				
Dimension	Single module sing	e siot, one N9000 cl	nassis support 9 sing	ie module insertion	

Note 1: For other specifications, please contact NGI. Note 2: All specifications are subject to change without notice.



Programmable Resistance Module Specification (3)

Model	Specification	Model	Specification	
NB102-01-12	1.11MΩ/1Ω/12CH NB102-11-12 11.11MΩ/10Ω/12CH		11.11MΩ/10Ω/12CH	
NB102-01-24	1.11MΩ/1Ω/24CH NB102-11-24 11.11MΩ/10Ω/24CH			
NB102-01-36	1.11MΩ/1Ω/36CH NB102-11-36 11.11MΩ/10Ω/36CH			
NB102-A6-12	600kΩ/1Ω/12CH ^[1] NB102-06-12 6 MΩ/10Ω/12CH ^[1]		6MΩ/10Ω/12CH [1]	
NB102-A6-24	600kΩ/1Ω/24CH ^[1] NB102-06-24 6MΩ/10Ω/24CH ^[1]		6MΩ/10Ω/24CH ^[1]	
NB102-A6-36	600kΩ/1Ω/36CH ^[1]	NB102-06-36	6MΩ/10Ω/36CH ^[1]	
Common Parameter				
Resolution	1Ω@600kΩ, 1Ω@1.11MΩ, 10Ω@11.11MΩ, 10Ω@6MΩ			
Channels	12CH/24CH/36CH optional			
Resistance Accuracy	≤2MΩ: 0.1%+Rr			
,	>2MΩ: 1%+Rr			
Residual Resistance	Typical value:3 Ω (when resistance is programmed to 0Ω)			
Resistance Max. Power	0.25W			
Switch Closure Time	<1.1ms			
Switch Release Time	<0.4ms			
Expected Switch Life	Low load application: >1×108 operations; Full load application:>1×106 operations			
Max. Switching Voltage	125VAC, 60VDC			
Max. Switching Current	0.5A			
Temperature	Working temperature:0°C~40°C; Storage temperature: -20°C~60°C			
Operating Environment	Altitude: <2000m; relative humidity: 5%~90%RH (no condensation); operating air pressure: 80~110kPa			
Dimension	Single module ½ slot, one N9000 chassis support 9 single module insertion			

Note [1]: $600k\Omega$, $6M\Omega$ models support NTC short-circuit simulation, NTC open circuit simulation



Programming High Voltage Power Supply Module Specification (4)

Current		NB106-2500			
Odifont	100mA				
Voltage	1200V	2500V			
Power	120W	250W			
Channels	10	CH			
	CV Mode				
Range	0~1200V	0~2500V			
Setting Resolution	100)mV			
Setting Accuracy (23±5°C)	0.05%+0.05%F.S.				
Readback Resolution	10mV				
Readback Accuracy (23±5°C)	0.05%+0.05%F.S.				
Voltage Ripple [1] (20Hz~20MHz)	≤1.2Vp-p	≤2.5Vp-p			
	CC Mode				
Range	0~10	00mA			
Setting Resolution	10	μA			
Setting Accuracy (23±5°C)	0.1%+0.1%F.S.				
Readback Resolution	10µA				
Readback Accuracy (23±5°C)	0.1%+0.1%F.S.				
Current Ripple (20Hz~20MHz)	≤500µArms				
Line Regulation					
Voltage		01%			
Current		≤0.05%			
Load Regulation					
Voltage		05%			
Current		05%			
	Dynamic Characteristic				
Voltage Rise Time	≤100ms (No load, 10%	·			
Voltage Rise Time	≤200ms (Pure resistive full load, 10%-90% variation time)				
Voltage Fall Time	≤200ms (No load, 90%-10% variation time)				
Voltage Fall Time					
	Other				
Isolation	Input to ground AC 1500V; output negative to ground				
Testing Terminal	2pin Banana Socket, 2pin				
AC Input	220V AC±10%, frequ				
Temperature	Working temperature: 0°C~40°C; Storage temperature: -20°C~60°C				
Operating Environment	Altitude: <2000m; relative humidity: 5%~90%RH (no condensation); operating air pressure: 80~110kPa				
Dimension	Single module single slot, one N9000 chassis support 9 single module insertion				
Net Weight	Approx. 1.33kg Approx. 1.47kg				

Note 1: For other specifications, please contact NGI.

Note 2: All specifications are subject to change without notice.

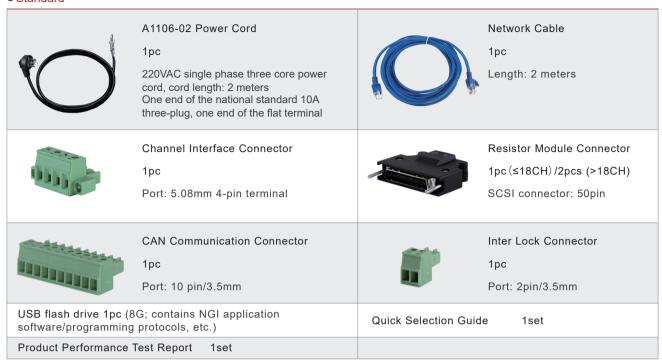
N9000 Measurement and Control Chassis Specification

Model	N9000
Slot	Support single slot*9pcs + ½ slot*1pcs
Communication Interface	LAN/CAN
AC Input	Single phase 100~240V AC, frequency 47Hz~63Hz, current ≤9A@220V, ≤18A@110V
Earth Leakage Current	<3.5mA@230VAC
Temperature	Working temperature:0°C~40°C; Storage temperature: -20°C~60°C
Operating Environment	Altitude: <2000m; relative humidity: 5%~90%RH (no condensation); operating air pressure: 80~110kPa
Dimension	177.0mm (H) *482.0mm (W) with handle*600.0mm (D)



Accessory

Standard



Optional



NB301-02/NB301-04 Battery Simulator Test Cable

NB301-02(cable length 2 meters)/NB301-04(cable length 4 meters)

1mm2 Teflon cable; 4 (1CH) nylon braided sleeve, fixed with cable ties, one end 5.08mm 4-pin terminal (female), one end pin terminal (red positive and black negative distinction) with numbering tube



NB302-18-02/NB302-18-04 Resistance Module Test Cable

NB302-18-02(cable length 2 meters)/NB302-18-04(cable length 4 meters)

1pc (18CH and below)/2pcs (18CH and above)

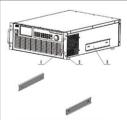
0.3mm2 RV cable; 36 harness (18CH) nylon braided sleeve, tie down, one end SCSI connector 50pin (male), one end pin terminal with numbering tube



A1103-02/A1103-04 Power Supply Cord

A1103-02 (cable length 2 meters) /A1103-04 (cable length 4 meters)

220VAC single phase 6mm²RVV sheathed power cord, bundle of 3 cores (L/N/PE), wire length: 2/4 metres; both ends: flat terminals 3pin



NF00Y Kit for Rack Installation

Suitable for 4U height and 19-inch width models

Name: Chassis rail; Material thickness: 2.0mm SGCC; Quantity: 2pcs