

N8320 Series Supercapacitor Current Leakage Tester



Product Introduction

N8320 is an analysis and diagnostic instrument specially developed by NGI for supercapacitor current leakage test. N8320 consists of three parts: test instrument, application software and test fixture. It can test the current leakage parameters of various types of supercapacitors under the set voltage. N8320 can be widely used in the R&D, production and quality inspection of supercapacitors, with the advantages of high cost performance, compact size and high accuracy.

N8320 uses a standard 19-inch chassis with 2U height, which is convenient for integration into automation test platforms for R&D and production, and can also be used separately.

Application Fields

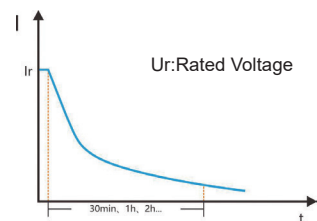
- ▶ R&D, production and quality inspection of supercapacitor
- ▶ Supercapacitor material research
- ▶ Other related fields of supercapacitor

Main Features

- ▶ Multiple ranges to be compatible with different specifications of supercapacitor
- ▶ High-accuracy current leakage measurement, resolution up to 10nA, accuracy up to 0.05%
- ▶ Voltage setting with ultra-high accuracy and stability, temperature coefficient low to 0.5ppm/°C
- ▶ Single device with up to 24 channels, standard 19 inch 2U chassis
- ▶ Communication interfaces: LAN/RS485
- ▶ Data export and analysis

Current leakage test

N8320 can provide multi-channel current leakage parameter test function. Based on high-reliability programmable voltage source and high-accuracy current leakage acquisition capability, N8320 allows users to set parameters such as voltage and sampling interval. The test results can be stored in database and exported in the formats of Excel and JPG.



▲ N8320 Current Leakage Test Graph

Test fixture

Considering the test application scenarios of different scales, NGI provides two types of test fixture: Kelvin clamp and 12-channel special fixture. Both test fixtures support four-wire connection.



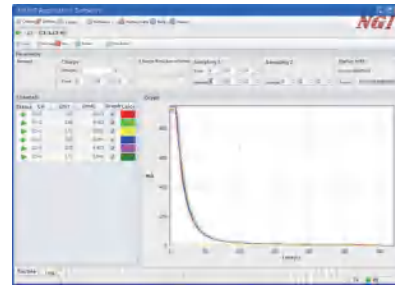
▲ 12-channel Special Fixture



▲ Kelvin Clamp

Application software

- N8320 software adopts a platform design, which allows the users to customize the test process according to their requirements.
- Office-like interface, independent display of each channel, supporting voltage and current waveform generation, and result display in tabular form make this professional software multifunctional and easy-to-use.
- N8320 software supports data search, data import & export, and Excel report generation.



▲ Application Software Interface

Technical Data Sheet

Model	N8320			N8321		
Current Limit Resistance	1Ω	10Ω	100Ω	1Ω	10Ω	100Ω
Max. Charging Current	1A	600mA	60mA	1A/20A	0.6A/20A	0.06A/20A
Current Leakage Readback Resolution	1μA	100nA	10nA	1μA	100nA	10nA
Current Leakage Readback Accuracy	0.05%+0.05%F.S.					
Current Readback Temperature Coefficient	<50ppm/°C					
Charging Voltage Range	0-6V					
Voltage Setting Resolution	16bits					
Voltage Setting Accuracy	0.01%+0.01%F.S.					
Voltage Setting Temperature Coefficient	0.5ppm/°C					
Max. Output Power	6W			120W		
Voltage Readback Range	0-6V					
Voltage Readback Resolution	12bits					
Voltage Readback Accuracy	0.1%+0.1%F.S.					
Sampling Interval Setting Range	1s-72h					
Channels	24CH					
Interface	LAN/RS485					
Data Export Format	Excel/JPG					
Operating Temperature	-10°C-40°C					
Relative Humidity	5%-90%					
Atmospheric Pressure	80-110kPa					
AC Input	220V AC±10%, frequency 47Hz-63Hz(Please refer to the nameplate.)					
Dimension	2U, 88(H)*482.6(W)*553.3(D)mm					
Net Weight	Approx. 10kg					

For other specifications, please contact NGI.

Product Dimension

