NEWARE

Specifications

BTS4000-5V100mA Battery testing system

Model:	BTS4000-	5	V	100	mA	Battery Testing System	SN:	CT-4008Q	-5V100mA	124

Items		Values
Input AC		AC 220V/110V ±10% / 50Hz
Input power		40 W
Resolution		AD:24bit; DA:16bit
Input impedance		≥1GΩ
Voltage	CV output range	10mV~5V
	Min discharge voltage	-5V
	Accuracy	**±0.01% of FS + ±0.01% of RD**
	Stability	± 0.02% FS
Current	Output range/channel	**Range1: 0.2µA-0.1mA; Range2: 0.1mA-1mA; Range3: 1mA-10mA; Range4: 10mA-100mA;**
	Accuracy	**±0.01% of FS + ±0.01% of RD**
	CV cut-off current	Range1: 0.1µA; Range2: 1µA; Range3: 10µA; Range4: 0.1mA
	Stability	± 0.02% FS
Power	Output power/channel	0.5 W
	Stability	± 0.01% FS
Time	Current response time	≤1.5ms(10% FS~90% FS)
	Working step time	≤(365*24)h/step Timeformat-00:00:00.000(h, m, s, ms)
Data record	Data record conditions	Min data record interval:100ms
		Min voltage change: 5mV
		Min current change: 0.1µA; 1µA; 10µA; 0.1mA
	Frequency	10Hz
Charge	Charge modes	CC, CV, CCCV, CP
	Cut-off condition	Voltage, Current, Time, Capacity, -△V
Discharge	Discharge modes	CC, CV, CCCV, CP, CR
	Cut-off condition	Voltage, Current, Time, Capacity
Pulse	Charge	CC, CP
	Discharge	CC, CP
	Min pulse width	500ms
	Pulse counts	Up to 32
	Chg and Dschg switch	Supported
	Cut-off condition	Voltage, Time
DCIR		Calculated DCIR values available in BTSDA
Cycle	Max cycles	65535
	Max steps	254
	Cycle nest	3
Protection	Safety protection	● Power-failure data protection
		● Offline operation mode
		● User-defined protection conditions, such as upper and lower current/voltage, delay time, temperature, etc.

Specifications

Channels feature	Independent pairs of closed loop for constant
Channels control mode	Independent control
Data acquisition method	Kelvin connection
Noise	<45dB
Database	MySQL
Communication	TCP/IP
Operating system	Windows 7/8/10 64bit
Data export	EXCEL, TXT, CSV, PDF, Plot/Graph
Min. disk drive	500GB
Communication port	Ethernet port
Leak Current	0.005μA
Channels per unit	8

Operation and storage environment requirement

Items	Values
Operation environment temperature	0℃~40℃ (When the temperature is 25±10℃, the accuracy offset caused by temperature is less than 50ppm/℃)
Storage environment temperature	-10℃~50℃
Operation environment humidity	≤70% RH(no moisture condensation)
Storage environment humidity	≤80% RH(no moisture condensation)

Clamps and dimensions

Items	Values
Fixture type	Polymer clamp
Tester pictures	
Clamps pictures	Alligator / Polymer / Ring connector Pictures just for reference
Dimensions(W*D*H)(mm)	1U（19"），443*310*43