Specifications

NEWARE

BTS4000-5V20mA Battery Testing System

Model：	BTS4000-	5	V	20	mA	Battery Testing System	SN:	CT-4008T	-5V20mA	-164

Items	Values
Input AC	AC 220V/110V ±10% / 50Hz
Input power	25 W
Resolution	AD:16bit; DA: 16bit
Input impedance	≥1G Ω

Voltage	CV output range	25mV~5V
	Min discharge voltage	-5V
	Accuracy	± 0.05% FS
	Stability	± 0.05% FS

Current	Output range/channel	**Range1: 5µA-1mA; Range2: 1mA-10mA; Range3: 10mA-20mA**
	Accuracy	± 0.05% FS
	CV cut-off current	Range1: 2µA; Range2: 20µA; Range3: 40µA
	Stability	± 0.05% FS

Power	Output power/channel	0.1	W
	Stability	± 0.1% of FS	

Time	Current response time	‹500µs (10%FS~90%FS)
	Working step time	≤(365*24)h/step Time format-00：00：00.000(h, m, s, ms)

Data record	Data record conditions	Min data record interval:100ms
		Min voltage change：10mV
		Min current change: 2µA; 20µA; 40µA
	Frequency	10Hz

Charge	Charge modes	CC, CV, CCCV, CP
	Cut-off condition	Voltage, Current, Time, Capacity, Energy, -△V

Discharge	Discharge modes	CC, CV, CCCV, CP, CR
	Cut-off condition	Voltage, Current, Time, Capacity, Energy

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	Supported	

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 limited current/voltage, delay time, temperature, etc.

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		
Tester pictures			
Clamps pictures (Pictures just for reference)			
Clamps types	Alligator	Polymer	Coin
Dimensions(W*D*H)(mm)	1U19", 483*310*48		