NEWARE

Specifications

BTS4000-5V20mA Battery Testing System

Model：	BTS4000-	5V20mA	Battery Testing System	SN：	CT-4008T-5V20mA

Items		Values			
Input AC		AC 220V ±10% / 50Hz			
Input power		25 W			
Resolution		AD：16bit；DA：16bit			
Input impedance		≥1GΩ			
Voltage	CV output range	25mV~5V			
	Min discharge voltage	-5V			
	Accuracy	± 0.05% of FS			
	Stability	± 0.05% of FS			
Current	Output range/channel	**Range1: 5µA-1mA; Range2: 1mA-10mA; Range3: 10mA-20mA**			
	Accuracy	± 0.05% of FS			
	CV cut-off current	Range1：2µA；Range2：0.02mA；Range3：0.04mA			
	Stability	± 0.05% of 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; 0.02mA; 0.04mA			
	Frequency	10Hz			
Charge	Charge modes	CC、CV、CCCV、CP			
	Cut-off condition	Voltage、Current、Time、Capacity、-△V			
Discharge	Discharge modes	CC、CP、CR、CV			
	Cut-off condition	Voltage、Current、Time、Capacity			
Pulse	Charge	CC、CP			
	Discharge	CC、CP			
	Min pulse width	500ms			
	Pulse counts	Up to 32			
	Cut-off condition	Voltage、Time			
DCIR	Supported				
Cycle	Max cycles	65535			
	Max steps	254			
	Cycle nest	3			
Protection	Safety protection	Power-off data protection			
		● Off-line operation mode			
		● User-defined protection conditions, such as upper and lower limited 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	<85dB
Database	MySQL
Communication	TCP/IP
Operating system	Windows 7/8/10 64 bit
Data export	EXCEL、TXT、CSV、PDF、Plot/Graph
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 error caused by temperature change 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)	1U（19"），483*310*48		