Specifications

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

Items		Values
Input AC		AC 220V/110V ±10% / 50Hz
Input power		25 W
Resolution		AD:24bit; 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.

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Specification

Channels feature	Independent pairs of closed loop for constant current and voltage
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

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Specifications

BTS4000-5V50mA Battery Testing System										
Model:	BTS4000-	5	V	50	mA	BatteryTestingSystem	SN:	CT-4008T	-5V50mA	-164

Items		Values
Input AC		AC 220V/110V ±10% / 50Hz
Input power		25 W
Resolution		AD:24bit; 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-25mA; Range3: 25mA-50mA**
	Accuracy	± 0.05% FS
	CV cut-off current	Range1: 2μA; Range2: 50μA; Range3: 100μA
	Stability	± 0.05% FS
Power	Output power/channel	0.25 W
	Stability	± 0.1% 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; 50μA; 100μA
	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	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 limited current/voltage, delay time, temperature, etc.

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Specification

Channels feature	Independent pairs of closed loop for constant current and voltage
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

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Specifications

BTS4000-5V10mA Battery Testing System													
Model:	BTS4000-	5	V	10	mA	BatteryTestingSystem	SN:	CT-4008T	-5V10mA	-	164		

Items		Values
Input AC		AC 220V/110V ±10% / 50Hz
Input power		25W
Resolution		AD:24bit; 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-5mA;Range3:5mA-10mA;**
	Accuracy	± 0.05% FS
	CV cut-off current	Range1: 2μA; Range2: 0.01mA; Range3: 0.02mA
	Stability	± 0.05% FS
Power	Output power/channel	0.05 W
	Stability	± 0.1% 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; 0.01mA; 0.02mA
	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 limited current/voltage, delay time, temperature, etc.

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Specification

Channels feature	Independent pairs of closed loop for constant current and voltage
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
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", 480*330*44

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