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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：24bit
Input Impedance		≥1GΩ
Voltage	CV output range	10mV~5V
	Min discharge voltage	-5V
	Accuracy	± 0.01% of FS
	Stability	± 0.02% of FS
Current	Output range/channel	Range1: 0. 2 μA-0.1mA; Range2: 0.1mA-1mA; Range3: 1mA-10mA; Range4: 10mA-100mA
	Accuracy	± 0.01% of FS
	CV cut-off current	Range1：0.1μA; Range2：1μA; Range3：1μA; Range4：0.1mA
	Stability	± 0.02% of FS
Power	Output power/channel	0.5 W
	Stability	± 0.1% of FS
Time	Current response time	Max rising time:1.5ms
	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:10ms
		Min voltage change：5mV
		Min current change：40mA
	Frequency	100Hz
Charge	Charge modes	CC、CV、CCCV、CP
	Cut-off condition	Voltage、Current、Time、Capacity、-△V
Discharge	Discharge modes	CC、CP、CR
	Cut-off condition	Voltage、Current、Time、Capacity
Pulse	Charge	Constant current, Constant power
	Discharge	Constant current, Constant power
	Min pulse width	500ms
	Pulse counts	Up to 32
	Chg and Dischg switch	Supported
	Cut-off condition	Voltage、Time
DCIR	Supported	
CH parallel	Supported, in parallel mode pulse function is disabled	
Cycles	Max cycles	65535
	Max steps	254
	Nest	3

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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.
	Hardware protection	Foolproof protection with hardware protection level IP20
Channels feature		Independent pairs of closed loop for constant current source and constant voltage source.
Channels per unit		8
Channels control mode		Independent control
Data acquisition method		Kelvin connection
Noise		<45dB
Database		MySQL
Communication		TCP/IP
Data Export		EXCEL、TXT、CSV、PDF、Plot/Graph
Harddrive space requirement		500GB
Leak current		0.005μA
Operation system		Windows 7/8/10
Communication port		Ethernet port

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 Picture (Pictures just for reference)			
Clamps pictures (Pictures just for reference)			
Clamps types	Alligator	Polymer	Ring connector
Dimension（W*D*H）(mm)	1U（19”），483.6*321.5*48.5		

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