NEWARE
Since 1998

Specifications

2025-1-22

BTS4000-5V100mA Battery Testing System			
SN：		CT-4008Q-5V100mA-124	
Items		**Values**	
Input AC		AC 220V ±10% / 50Hz	
Input power		40	W
Resolution		AD：24 bit；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: 0.2μA-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; Range3:10μA;Range:0.1mA	
	Stability	0.02% of FS	
Power	Output power/channel	0.5	W
	Stability	±0.04 %of FS	
Time	Current response time	＜1ms （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：Range1:0.1μA;Range2:1μA;Range3:10μA;Range4:0.1mA	
	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	Upto32	

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	Chg and Dischg switch	Supported	
	Cut-off condition	Voltage、Time	
DCIR		Supported	
Cycle		Max cycles	1~65535
		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.
IP (Ingress Protection) Rating			IP20
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			Windows7/10
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℃ (Whenthetemperatureis25±10℃,the accuracy error causedbytemperaturechangeislessthan50ppm/℃)
Storage environment temperature	-10℃~50℃
Operation environment humidity	≤70%RH(no moisture condensation)
Storage environment humidity	≤80%RH(no moisture condensation)

Specifications

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Clamps and dimensions			
Items	**Values**		
Clamps types	Dimensions（W*D*H）(mm)		
Clamps pictures			
	Alligator	Polymer	PCB Coin Cell Clamp
	Pictures just for reference		
Dimensions（W*D*H）(mm)	1U（19"）443*310*43		
Tester pictures			
	Pictures just for reference		