



NEWARE Specifications

BTS4000-5V50mA Battery Testing System												
Model:	BTS4000-	5	V	50	mA	Battery Testing System		SN:	CT-4008T	-5V50mA	-	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% of FS							
	Stability				± 0.05% of FS							
Current	Output range/channel				Range1: 5μA-1mA; Range2: 1mA-25mA; Range3: 25mA-50mA							
	Accuracy				± 0.05% of FS							
	CV cut-off current				Range1: 2μA; Range2: 50μA; Range3: 100μA							
	Stability				± 0.05% of FS							
Power	Output power/channel				0.25	W						
	Stability				± 0.1% of FS							
Time	Current responsetime				<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、-△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							
	Chg and Dischg switch				Supported							
	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.							

Channels feature	Independent pairs of closed loop for constant		
Channels control mode	Independent control		
Data acquisition method	Kelvin connection		
Noise	<85dB		
Database	MySQL		
Communicatin	TCP/IP		
Operating system	Windows 7/8/10 64bit		
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		
Operationenvironment temperature	0℃~40℃ (When the temperature is 25±10℃, the accuracy error caused by temperature change is less than 50ppm /℃)		
Storage environmenttemperature	-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(164), 480*330*44		

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