



NEWARE Specifications

BTS4000-5V100mA Battery testing system													
Model:	BTS4000-	5	V	100	mA	Battery testing system		SN:	CT-4008	-5V100mA		-	-
Items						Values							
Input AC						AC 220V/110V ±10% / 50Hz							
Input power						40W							
Resolution						AD : 16bit ; DA : 16bit							
Input Impedance						≥1MΩ							
Voltage	CV output range					25mV~5V							
	Min discharge voltage					-5V							
	Accuracy					± 0.05% of FS							
	Stability					± 0.1% FS							
Current	Output range/channel					4 ranges: 0.1mA, 1mA, 10mA, 100mA							
	Accuracy					± 0.05% of FS							
	CV cut-off current					0.2uA, 2uA, 20uA, 0.2mA							
	Stability					± 0.05% of FS							
Power	Output power/channel					0.5	W						
	Stability					± 0.1% of FS							
Time	Current response time					Max rising time:1ms							
	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 : 0.2uA, 2uA, 20uA, 0.2mA							
	Frequency					10Hz							
Charge	Charge modes					CC、CV、CCCV、CP							
	Cut-off condition					Voltage、Current、Time、Capacity、-ΔV							
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							
						● Power-off data protection							

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Protection	Safety 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 64 bit		
Data export		EXCEL 、 TXT、 CSV、 PDF、 Plot/Graph		
Disk drive		500GB		
Communication port		Ethernet port		
Leak Current		0.005mA		
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 (Pictures just for reference)				
Clamps pictures (Pictures just for reference)				
		Alligator	Polymer	Coin
Dimensions (W*D*H) (mm)		1U(164) , 480*330*44		

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