NEWARE

Specifications

BTS-5V5A	Battery testing sy	ystem	
Model:	BTS-5V5A	Battery testing system SN: CT-9008-5V5A-SMBUS	
Items		Values	
Input AC		220V +10% / -20%, 50Hz;	
Input power		300W	
Resolution		AD: 16bit; DA: 16bit	
Input Impedance		\geqslant 1000M Ω $$ Power-on status (leakage current is 100uA when power-off)	
Voltage	Output	Charge: OV~5V	
	range/channel	Discharge: 0V~5V	
	Minimum discharge voltage	OV	
	Accuracy	\pm 0.02% of range	
	Stability	0.005% of FS	
Current	Output range/channel	Rangel: 0.1µA-150µA; Range2: 150µA-5mA; Range3: 5mA-150mA; Range4: 150mA-5A	
	Accuracy	\pm 0.02% of FS	
		Range1: \pm 30nA; Range2: \pm 1 μ A; Range3: \pm 30 μ A; Range4: \pm 1mA	
	Stability	$\pm 0.005\%$ of FS	
	Output	25W	
Power	power/channel	201	
	Stability	\pm 0.02% of FS	
	Temperature probe	K type thermocouple	
	Measurement range	-40 ~ +110℃	
Temperatur	Measurement accuracy	±1°C	
Ũ	Resolution	0.1°C	
	Date Record Frequency	1Hz	
Time	Current response time	<= 100 µ S (10% to 90% or 90% to 10%);	
	Working step time	\leqslant (365*24)h/step Time format-00: 00: 00.000(h, m, s, ms)	
	Data record conditions	Time Δt : >=1ms	
		Voltage ΔU : >= 1mV	
Data Rocord		Current Δ I: >= 100nA	
Data Record	Frequency	1000Hz	
		(Continuous charge and discharge mode) / Pulse by pulse	
		recording (GSM pulse mode);	
Charge	Charge modes	CC、CV、CCCV、CP、CR	
	Cut-off condition	Voltage, Current, -△t, Capacity, Energy, Power	

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Discharge	Discharge modes	CC、CV、CR、CP、Pulse		
	Cut-off condition	Voltage, Current, -△t, Capacity		
Pulse Mode	Charge	CC Mode		
	Discharge	CC Mode		
	Minimum pulse width	400 µ s		
	Pulse number	A single pulse step supports 16 different pulse segments		
	Cut-off condition	Voltage、-△t		
DCIR Test	Support DCIR step			
Cycles	Max cycles	65535		
	Max steps	255		
	Nest	4;		
	Safety protection	Power-off data protection		
	and	User-defined protection conditions, such as upper and lower limited		
	Anomaly	current/voltage, upper limited capacity, upper limited power,		
Protection	protection	Current and voltage fluctuation, delay time, temperature, etc.		
		Anti-reverse connection protection, input overvoltage protection,		
	Hardware	output overvoltage protection, input overcurrent protection,		
	protection	output overcurrent protection, overheat protection, overload		
		protection, output no-load protection;		
		Using energy-saving inverter technology, energy is locally transferred between channels, which is energy-saving and environmentally friendly;		
		It adopts automotive-grade master control scheme, 200kHz high		
		frequency conversion, low ripple and low noise;		
		The equipment is small in size, low in energy consumption, and low		
Channel feat	ures	in heat;		
		Constant current source and constant voltage source adopt		
		independent double closed loop structure;		
		The system adopts an integrated design, and the unit tester directly		
		connects to the test server on the Internet;		
		High-speed 1000Hz sampling;		
		1GB offline storage capacity per channel;		
Channels con	ntrol mode	Independent control		
Data acquisi	tion method	Kelvin connection		
Noise		<80dB		
Communication with computer				
Data Export		EXCEL、TXT、CSV、PDF、Plot/Graph		
Communication port		Ethernet 100M		
Number of ch	8			
Operation and storage environment requirement				

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Items	Values			
Operation environment	25℃±5℃(Accuracy Guaranteed)			
temperature	$25^{\circ} \text{C} \pm 20^{\circ} \text{C}$ (extreme operating temperature);			
Storage environment temperature	0°C~60°C			
Operation environment humidity	30% \sim 70% RH (no moisture condensation)			
Storage environment humidity	30% \sim 80% RH (no moisture condensation)			
Clamps and dimensions				
Items	Values			
Clamps types	Choose according to customer needs			
Unit tester size (W*D*H)	443 * 615 * 125 (mm)			
Tester Picture (Pictures just for reference)	Battery Testing System			
SMBUS characteristics				
SMBUS characteristics				
SMBUS characteristics Items	Values			
SMBUS characteristics Items Hardware compatibility	Values Compatible with SMBUS, I2C communication protocol, support 400kHz high-speed mode;			
SMBUS characteristics Items Hardware compatibility Software compatibility	Values Compatible with SMBUS, I2C communication protocol, support 400kHz high-speed mode; Compatible with the standard specification field information instructions defined by Smart Battery Data Specification Revision 1.1, users can edit the DBC by themselves to support different chip protocols;			
SMBUS characteristics Items Hardware compatibility Software compatibility Data reading frequency	Values Compatible with SMBUS, I2C communication protocol, support 400kHz high-speed mode; Compatible with the standard specification field information instructions defined by Smart Battery Data Specification Revision 1. 1, users can edit the DBC by themselves to support different chip protocols; 4CH runs independently, each channel can be individually set to read different SMBUS parameter lists, and each parameter can be dynamically refreshed in real time or read at one time to reduce bus occupation; All channels can be read at full speed at the set bus rate (100kHz [~] 400kHz) at the same time; When only a few parameters are read per channel, it can be refreshed more than 10 times per second;			