





BTS5000-20V10A Battery testing system											
Model:	BTS5000-	20	V	10	A	Battery testing system	SN:	CE-5008	-20V10A	-	SMB
Items						Values					
Input AC						AC 220V/110V ±10% / 50Hz					
Input power						1800 W					
Resolution						AD: 16bit; DA: 16bit					
Input impedance						≥1MΩ					
Voltage	CV output range					2.5V~20V					
	Accuracy					± 0.02% of FS					
	Stability					0.01% of FS					
Current	Output range/channel					20mA-10A					
	Accuracy					± 0.03% of FS					
	Stability					0.015% of FS					
Power	Output power/channel					200 W					
	Stability					0.05% of FS					
Time	Current response time					Max rising time:20ms (10%FS~90%FS)					
	Working step time					1~65535min/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: 5mA										
Charge	Frequency					100Hz					
	Charge modes					CC, CV, CCCV, CP					
Discharge	Cut-off condition					Voltage, Current, Time, Capacity					
	Discharge modes					CC, CP, CCCV					
DCIR	Cut-off condition					Voltage, Current, Time, Capacity					
	Supported										
Cycle	Max cycles					65535					
	Max steps					255					
	Cycle nest					4					
Protection	Safety protection					<ul style="list-style-type: none"> • Power-off data protection • User-defined protection conditions, such as upper and lower limited current/voltage, delay time, temperature, etc. 					
	Hardware protection					<ul style="list-style-type: none"> • Poka-Yoke, input over-voltage, output over-voltage , input over-current, output over-current, overtemperature, overload, output no-load. 					
Channels feature						Energy saving model, discharged energy can be used by charging channels or go back to power grid. Switch frequency up to 200kHz, low power ripple and noise. Compact cabinet design, less room taken. Both voltage and current independently closed loop. Data record frequency up to 100Hz. 1GB memory available for offline mode(data will be saved on the tester if PC offline).					

Channels control mode	Independent control
Data acquisition method	Kelvin connection
Noise	<80dB
Database	MySQL
Communication	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
Channels per unit	8
Operation and storage environment requirement	
Items	Values
Operation environment temperature	0℃~45℃ (When the temperature is 25±10℃, the accuracy error caused by temperature change is less than 50ppm /℃)
Storage environment temperature	0℃~45℃
Operation environment humidity	30% ~ 80% RH(no moisture condensation)
Storage environment humidity	30% ~ 90% RH(no moisture condensation)
Clamps and dimensions	
Items	Values(Pictures just for reference)
Tester pictures	
Clamps pictures	
	
	
	Alligator Polymer Coin
Dimensions (W*D*H) (mm)	500*480*86
SMBUS features	
Items	Values(Pictures just for reference)
Hardware compatibility	SMBUS, I2C, up to 400kHz high speed mode.
Software compatibility	Smart Battery Data Specification Revision 1.1, DBC Editor available for customers to import/edit more types of protocol.
Data reading frequency	All 8 channels can be configured with different SMBUS communication protocols. 100kHz~400kHz full speed reading on all 8 channels at the same time supported. SMBUS data reading refresh frequency up to 10 times/s.
Customized parameters and functions	Customized parameters and functions available.