Specifications of BTS9000-5V5A-4CH

Items		Values
AC input		AC 220V ±10% 50Hz / AC 110V ±10% 50Hz
Resolution		AD : 16bit ; DA : 16bit
Input impendence		≥ 500MΩ (power on), LC=100uA(power off)
Input power		250 w
Features		4 ranges, high acquisition frequency, high accuracy
Channels control mode		Independent control
Voltage	Voltage output	Charge : 0.7 V~5V ; Discharge : 0.7 V~5V (0.5m data wire)
	Lowest output voltage	0.7 V (0.5m data wire)
	Accuracy	± 0.02% of FS
	Stability	±0.005% of FS
Current	Current output ranges	Range 1: 0.1uA---150uA
		Range 2 : 140uA---5mA
		Range 3 : 4.5mA---150mA
		Range 4: 140mA---5A
	Accuracy	± 0.02% of FS
		Range 1: ± 30nA
		Range 2 : ± 1uA
		Range 3 : ± 30uA
		Range 4: ± 1mA
	Stability	±0.005% of FS
Power	Output power/CH	25W
	Stability	± 0.01% of FS
Time	Current response time	<= 100μS (10% to 90% or 90% to 10%);
	Testing step time range	>=10ms
Data record	Data record conditions	Time ⊿t : >=1ms
		Voltage ⊿U : >= 1mV
		Current ⊿I : >= 100nA
	Frequency	1000Hz , Pulse
Charge	Modes	CC, CCCV, CV, CP, CR
	End conditions	Voltage, Current, ⊿t, Capacity, Energy, Power
Discharge	Modes	CC, CP, CR, Pulse
	End conditions	Voltage, Current, ⊿t, Capacity

Items		Values
Pulse	**Charge**	CC, CP
	Discharge	CC, CP
	Min. pulse width	400μs
	Pulses counts	Up to 16 changes in each pulse
	End conditions	Voltage, △t
DCIR	**Can be calculated by software**	
Cycle	**Max cycles**	65535
	Max steps in each cycle	255
	Max cycle nest	4
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.
Data acquisition method		Kelvin connection
Database		MySQL
Data export		Xls, txt, Graph/Plot, PDF
Communication		Ethernet
Channels		4
Dimensions		585*575*130 (mm)
Clamps		264 Air-plug, Polymer or alligator available
Operating system		Windows 7/10 64bit for the best

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 than50ppm /℃）
Storage environment temperature	-10℃~50℃
Operation environment humidity	≤70% RH(no moisture condensation)
Storage environment humidity	≤80% RH(no moisture condensation)