BTS4000-10V50A Battery testing system

Model:	BTS4000-	10	V	50	A	Battery testing system	SN:	CT-4008	-10V50A	-	NTFA

Items		Values
Input AC		AC 380V ±10% / 50Hz
Input Power		6076　　　　　　　　　W
Resolution		AD：16bit；DA：16bit
Input Impedance		≥100kΩ
Voltage	CV output range	0.05V~10V
	Min discharge voltage	0V
	Accuracy	± 0.1% of FS
	Stability	± 0.1% of FS
Current	Output range	0.25A~50A
	Accuracy	± 0.1% of FS
	CV cut-off current	0.25A
	Stability	± 0.1% of FS
Power	Output power/channel	500W
	Stability	±0.2% of FS
Time	Current response time	Max rising time: 20ms
	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：20mV
		Min current change：100mA
	Frequency	10Hz
Charge	Charge mode	CC、CV、CCCV、CP、CCCV for battery pack
	Cut-off condition	Voltage, Current, ΔTime, Capacity, △V
Discharge	Discharge mode	CC、CP、CR
	Cut-off condition	Voltage, Current, ΔTime, Capacity
Pulse Mode	Charge	Constant current, Constant power
	Discharge	Constant current, Constant power
	Min pulse width	500ms
	Pulse cycles	up to 32
	Cut-off condition	Voltage, Time
DCIR	supported	
Channels Parallel	Unsupported	
Cycle	Max cycles	65535
	Max steps	254
	Max cycle nest	3
Protection	Software 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.
	Hardware protection	Foolproof protection with hardware protection level IP20
Channels feature		Independent pairs of closed loop for constant current source and constant voltage source.

Channels control mode	Independent control
Data acquisition method	Kelvin connection
Noise	<85dB
Database	MySQL
Communication	TCP/IP
Harddrive space requirement	500GB
Data Export	XLS, PDF， TXT, Plot/Graph
OS	Windows 7/10 64 bit
Communication port	Ethernet

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 0.005% of FS /℃）
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 Picture (Pictures just for reference)	
Clamps pictures (Pictures just for reference)	Alligator Polymer Ring connector
Dimension（W*D*H）(mm)	24U（19"），600*600*1260

Aux Channels	Aux channel types	Temperature
	Temperature range	'-25℃~110℃
	Temperature accuracy	±1℃
	Temperature resolution	0.1℃

Temperature aux channels for each main channel	Up to 248
Voltage aux channels for each main channel	Up to 248
Protection settings for aux channels	Temperature up-limit, bottom-limit; Voltage up-limit, bottom-limit; ΔV of single cell.

Note：not appliable for batteries with soft-reset functional protection board