Date: 2023.07.23

The BTS-5V20A Battery Detection Device														
Unit type:	BTS-	5	V	20	A	Battery detection equipment	Equipment material code:	CT-4008	-5V20A	-	NA	-	S1	

Indicator project		Indicator parameters
Enter the power supply		AC 220V ±10% / 50Hz
Input active power		1418 W
Resolution ratio		AD: 16bit; DA: 16bit
Input impedence		≥1M Ω
Voltage	Constant voltage range control	0.025V~5V
	Minimum discharge voltage	2.5V
	accuracy	± 0.1% of FS
	stability	± 0.1% of FS
Current	Output range per channel	0.1A~20A
	accuracy	± 0.1% of FS
	Constant pressure cut-off current	0.04A
	stability	± 0.1% of FS
Power	Single-channel maximum output power	100 W
	Stability	± 0.2% of FS
Time	Current rise time	Maximum current rise time of 20ms (10% to 90% or 90% to 10%)
	Working step time range	(365 * 24) hour / step; time format supports 00:00:00.000 (h, min, s, ms)
Data logging	Data recording conditions	Minimum time interval: 100ms
		Minimum voltage interval: 10 mV
		Minimum current interval: 40 mA
	Record frequency	10Hz
Charge	Charging mode	Constant current charging, constant voltage charging, constant current constant voltage charging, constant power charging
	Cut-off condition	Voltage, current, relative time, capacity, -△V
Discharge	Discharge mode	Constant current discharge, constant power discharge, constant resistance discharge, constant voltage discharge
	Cut-off condition	Voltage, current, relative time, and capacity
Pulse mode	Charge	Constant current mode, constant power mode
	Discharge	Constant current mode, constant power mode
	Minimum pulse width	500ms
	Pulse number	A single pulse working step was supported for 32 different pulses
	Charge and	A pulse working step can achieve continuous switching from charging

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	discharge switch switching	to discharging
	cut-off condition	Voltage, and relative time
DCR test	Support the calculation of custom taking points for DCR	
Recurrence	Circulating test range	1 to 65,535 times
	Single cycle step number	254
	loop nesting	With nesting cycle function, up to 3-layer nesting support
Protect	● Power-loss data protection	
	● It has the offline test function	
	● Safety protection conditions can be set, setting parameters include: voltage limit, voltage limit, current limit, current limit, capacity limit, delay time	
	● Has the function	
IP levels of protection	Protection level, IP 20	
Channel characteristics	The constant current source and the constant voltage source adopt a double closed-loop structure	
Channel control mode	independent control	
Voltage and current detection and sampling	Four-line connection	
Noise	<85dB	
Data base	The test data was managed centrally using the MySQL database	
Upper-computer communication mode	Based on the TCP / IP protocol	
Data output mode	EXCEL 2003/2010, TXT	
Server disk configuration	500GB	
leakage current	0.005mA	
Server operating system	Windows 7	
CI	Internet access	
Equipment working environment requirements		
Indicator project	Indicator parameters	
Operating temperature range	0℃~40℃ (within 25 ± 10℃, guarantee measurement accuracy: accuracy drift 0.005% of FS /℃)	
Storage temperature range	-10℃~50℃	
Relative humidity range of the working environment	70% RH (no moisture condensation)	
Storage environment relative humidity range	80% RH (no moisture condensation)	
Grilamp specifications and dimensions		
Indicator project	Indicator parameters	
Types of fixtures	Line nose fixture	
Clip image		
	Crocodile clamps	Polymer clamps



Line nose clamps

	Pictures are for reference only, subject to the physical object, choose one of the above clips
Case size per unit (W*D*H) (mm)	not have
Number of machine channels	8
Device pictures	Pictures are for reference only, subject to the physical object
Note: incompatible test with protective panel battery with soft start function	

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