BTS4000-5V30A Battery Testing System

Equipment material code		CE -4008Q-5V30A	
Indicator project		Indicator parameters	
Enter the power supply		AC 220V +10%/ 50Hz	
Input active power		1.71kW	
Resolution ratio		AD： 24bit； DA： 16bit	
Input impedence		≥1MΩ	
Voltage	Constant voltage range control	0.025V~5V	
	Minimum discharge voltage	1.5V (2m wire length)	
	Accuracy	± 0.05% of FS	
	Stability	0.1% of FS	
Current	Output range per channel	Range 1: 5 mA ~ 1 A; Range 2: 0 mA ~ 6 A; Range 3: 60 mA ~ 12 A; Range 4: 150 mA ~ 30 A;	
	Accuracy	± 0.05% of FS	
	Constant pressure cut-off current	Range 1: 0.005A; Range 2: 0.03A; Range 3: 0.06A; Range 4: 0.15A;	
	Stability	0.1% of FS	
Power	Single-channel maximum output power	150W	
	Accuracy	±0.1% of FS	
	Stability	0.1% of FS	
Time	Current rise time	Maximum current rise time of 1ms (10% to 90% or 90% to 10%)	
	Working step time range	(365 * 24) hours / work step	Time format support 00:00:00 (h, min, s)
Data logging	Data recording conditions	Minimum time interval: 100ms (recording frequency: 10Hz)	
Charge	Charging mode	Constant current charging, constant voltage charging, constant current constant voltage charging, constant power charging	
	Cut-off condition	Main channel: voltage, current, relative time, capacity, - ΔV	
Discharge	Discharge mode	Constant current discharge, constant power discharge, constant	

		resistance discharge, constant voltage discharge
	Cut-off condition	Main channel: voltage, current, relative time, and capacity
DCIR test	Support for custom taking points for the calculation of DCIR	
Channel parallel	Up to 4 adjacent channels are supported in parallel, and no pulse test is supported in parallel	
Recurrence	Circulating test range	1 to 65,535 times
	Single cycle step number	254
	Loop nesting	≤10 layer
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, delay time	
	● Has the function	
Energy saving efficiency	> 65% (compared to conventional equipment)	
IP levels of protection	Protection level is IP20	
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	<75dB (measured at 1m)	
Data base	The test data was managed centrally using the MySQL database	
Upper-computer communication mode	Based on the TCP / IP protocol	
Server disk configuration	500GB	
Data output mode	EXCEL 2003, 2010, TXT	
Server operating system	Windows 7, Windows 10	
CI	Network port and CAN communication module support communication with BMS to obtain BMS data (optional)	
Equipment working environment requirements		
Indicator project	Indicator parameters	
Operating temperature range	0℃~40℃； Ensure the measurement accuracy within the calibration	

	temperature (usually 25℃) plus or minus 5℃; Accuracy drift is 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	Selectable		
Fixtures			
	Crocodile fixtures	Polymer fixtures	Line nose fixture
	Pictures are for reference only, subject to the physical object, choose one of the above clips		
Number of machine channels	8		
Case size per unit (W * D * H) (mm)	19"3U		

Note: incompatible test with protective panel battery with soft start function