BTS-5V100mA Four-Range Battery Testing System

Equipment material code:		CT-8002Q-5V100mA-124	
Indicator project		Indicator parameters	
Enter the power supply		AC 220V ±10% / 50Hz	
Input active power		20W	
Resolution ratio		AD: 24bit； DA: 16bit	
Input impedence		≥1GΩ	
Voltage	Constant voltage range control	10mV~5V	
	Minimum discharge voltage	-5V	
	Accuracy	±0.01% of	
	Stability	0.02%	
Current	Output range per channel	Range 1: 0.2μA~0.1mA; Range 2: 0.1mA~1mA; Range 3: 1mA~10mA; Range 4: 10 mA~100mA	
	Accuracy	± 0.01% of FS	
	Constant pressure cut-off current	Range 1: 0.1μA; Range 2: 1μA; Range 3: 10μA; Range 4: 0.1mA	
	Stability	0.02%	
Power	Single-channel maximum output power	0.5 W	
	Stability	0.04%	
Time	Current response time (10% FS to 90% FS)	≤1ms	
	Working step time range	(365 * 24) hours / work step	Supported in time format: 00:00:00:00 (h, min, s, ms)
Data logging	Data recording conditions	Minimum time interval: 10ms	
		Minimum voltage interval: 5 mV	
		Minimum current interval: range 1:0 μ A; range 2:1 μ A range 3:10 μ A; range 4:0.1 mA.1	
	Record frequency	100Hz	
Charge	Charging mode	Constant current charging, constant voltage charging, constant current constant pressure charging, constant power charging	
	Cut-off condition	Voltage, current, relative time, capacity, -△V	
Discharge	Discharge mode	Constant current discharge, constant voltage discharge, constant current constant voltage discharge, constant power discharge, constant resistance 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	100ms
	Pulse number	A single pulse working step supports 32 different pulses
	Continuous charge / discharge charge switching	A pulse step can realize charging continuous switching, or discharge continuous switching; (charge-to-charge switching is not supported)
	Cut-off condition	Voltage, and relative time
DCIR test	Support for custom taking points for the calculation of DCIR	
Recurrence	Circulating test range	1 to 65,535 times
	Single cycle step number	254
	Loop nesting	With a nesting cycle function, up to a 10-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
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		<45dB
Data base		The MySQL database was used to centralize the test data
Upper-computer communication mode		Based on the TCP / IP protocol
Server operating system		Windows 7 / Windows 10 and above systems
Data output mode		EXCEL2003，2010、TXT
Server disk configuration		500GB
CI		internet access
Leakage current		0.005μA
Number of machine channels		2
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 0.001% 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	Polymer fixtures		
Clip image			
	Crocodile fixtures	Polymer fixtures	PCB buckle fixture
	Pictures are for reference only, subject to the physical object		
Case size per unit (W * D * H) (mm)	1U (19")，483*310*43 (mm)		
Device pictures			
	Pictures are for reference only, subject to the physical object		