

## Specifications of BTS9000-2CH

Items	Values
<b>AC input</b>	AC 220V ±10% 50Hz / AC 110V ±10% 50Hz
<b>Resolution</b>	AD : 16bit ; DA : 16bit
<b>Input impedance</b>	≥ 500MΩ (power on), LC=100uA(power off)
<b>Input power</b>	250w
<b>Features</b>	4 ranges, high acquisition frequency, high accuracy
<b>Channels control mode</b>	Independent control
<b>Voltage</b>	<b>Voltage output</b> Charge : 0.7 V~5V ; Discharge : 0.7 V~5V ( 0.5m data wire )
	<b>Lowest output voltage</b> 0.7 V ( 0.5m data wire )
	<b>Accuracy</b> ± 0.02% of FS
	<b>Stability</b> ±0.005% of FS
<b>Current</b>	<b>Current output ranges</b> Range 1: 0.1uA---150uA Range 2 : 140uA---5mA Range 3 : 4.5mA---150mA Range 4: 140mA---5A
	<b>Accuracy</b> ± 0.02% of FS Range 1: ± 30nA Range 2 : ± 1uA Range 3 : ± 30uA Range 4: ± 1mA
	<b>Stability</b> ±0.005% of FS
<b>Power</b>	<b>Output power/CH</b> 25W
	<b>Stability</b> ± 0.01% of FS
<b>Time</b>	<b>Current response time</b> <= 100µS (10% to 90% or 90% to 10%);
	<b>Testing step time range</b> >=10ms
<b>Data record</b>	<b>Data record conditions</b> Time $\Delta t$ : >=1ms Voltage $\Delta U$ : >= 1mV Current $\Delta I$ : >= 100nA
	<b>Frequency</b> 1000Hz , Pulse
<b>Charge</b>	<b>Modes</b> CC, CCCV, CV, CP, CR
	<b>End conditions</b> Voltage, Current, $\Delta t$ , Capacity, Energy, Power
<b>Discharge</b>	<b>Modes</b> CC, CP, CR, Pulse
	<b>End conditions</b> Voltage, Current, $\Delta t$ , Capacity
<b>Pulse</b>	<b>Charge</b> CC, CP
	<b>Discharge</b> CC, CP
	<b>Min. pulse width</b> 400µs
	<b>Pulses</b> Up to 16 changes in each pulse



Items		Values	
	<b>End conditions</b>	Voltage, $\Delta t$	
<b>DCIR</b>	<b>Can be calculated by software</b>		
<b>Cycle</b>	<b>Max cycles</b>	65535	
	<b>Max steps in each cycle</b>	255	
	<b>Max cycle nest</b>	4	
<b>Protection</b>	<b>Safety protection</b>	Power-off data protection	
		Off-line operation mode	
		User-defined protection conditions, such as upper and lower limited current/voltage, delay time, temperature, etc.	
<b>Data acquisition method</b>		Kelvin connection	
<b>Database</b>		MySQL	
<b>Data export</b>		Xls, txt	
<b>Communication</b>		Ethernet	
<b>Channels</b>		2	
<b>Dimensions</b>		45cm*35cm*4.5cm	
<b>Clamps</b>		164 Air-plug, Polymer or alligator available	
<b>Operating system</b>		Windows 7 for the best	
<b>Operation and storage environment requirement</b>			
Items		Values	
<b>Operation environment temperature</b>		0°C~40°C (When the temperature is 25±10°C, the accuracy error caused by temperature change is less than 50ppm /°C)	
<b>Storage environment temperature</b>		-10°C~50°C	
<b>Operation environment humidity</b>		≤70% RH (no moisture condensation)	
<b>Storage environment humidity</b>		≤80% RH (no moisture condensation)	