

Battery Explosion Proof



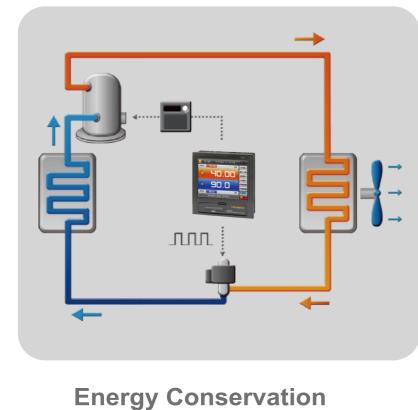


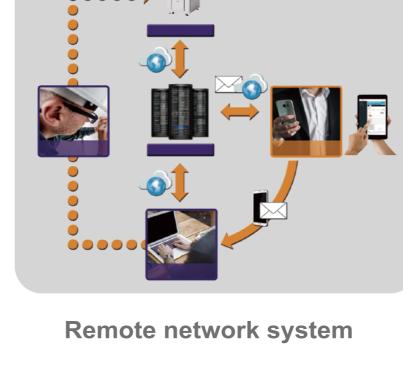
Walk in Battery Explosion Proof High & Low Temperature Chamber

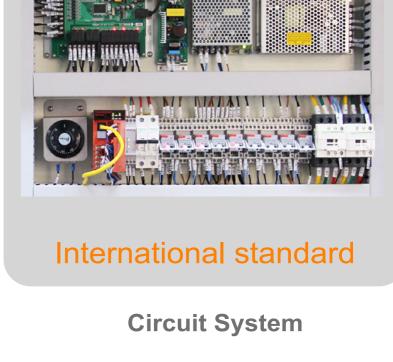


High & Low **Temperature Chamber**







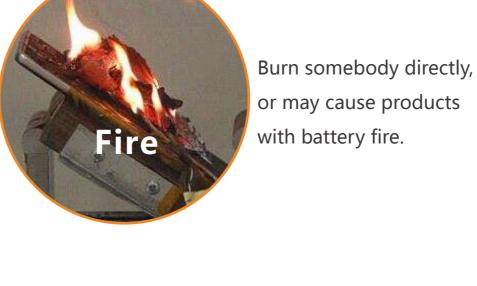


Why does battery heat, fire and explosion? What will happen under such phenomenon?



or decrease the insulation performance of components security and make the flammable liquid ignition.

Burn somebody directly



or may cause products with battery fire.



Harm somebody directly or damage equipment

Secondary battery environmental test Lithium-ion batter advantages:

primary cell just

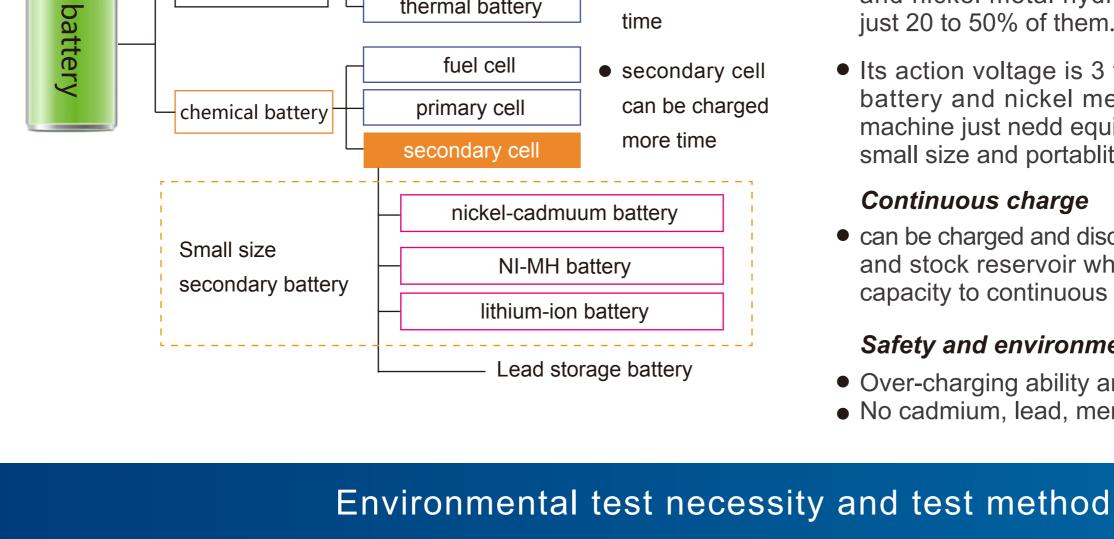
time

can be used one

What test should be battery made?

Battery type

Physical battery



The necessary reason for environmental test

Solar cell

thermal battery

charge or discharge under different

environmental temperature to check

secondarybattery performance under

such temperature condition

Small size • portabilityenergy density, with same capacity, its

weight is only half of the nickel cadmium battery and nickel metal hydride batteries, its volume

- just 20 to 50% of them. • Its action voltage is 3 times to nickel cadmium battery and nickel metal hydride battery, the machine just nedd equipped with a few batteries,
- small size and portablity. Continuous charge • can be charged and discharged under any condition and stock reservoir which will not reduce energy capacity to continuous charging.

Safety and environmental protection

- Over-charging ability and over-thermal safety. • No cadmium, lead, mercury, etc.

under specific environment to

charge/discharge battery

battery performance

repeatedly and check every

Low/High Temp. Charge/discharge test preservation test Performance Test

Under specific environment

to long-time use battery and

test battery leakeage and

safety performance

electric tools, automobile such area change **Necessary test** Secondary battery applied

in chemical reaction, and

chemical reation affected

(especially the temperature)

by environment

With econdary battery widely

used, the environment

will also be changed as

mobile phones, computers,

household appliances,

a lot

Model

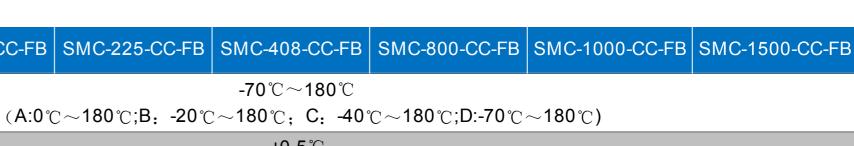
Temperature control

range

Temperature fluctuation

Cooling rate

Temperature requirement: any point from-30~30C (according to the temperature range of battery type and usage)	Temperature requirement: any point from -10~70C (according to the temperature range of battery type and usage)	Temperature requirement: any point from-30~30C (according to the temperature range of battery type and usage)	Vibration requirement: 7~18Hz/1G、18~200Hz/8G、 1.6,mmp-p、X、Y、Z 3 hour) Impact and shock requierment: accelaration 150G and maintain 6s on peak value				
	SAMIVOOD® environmental test chambers						



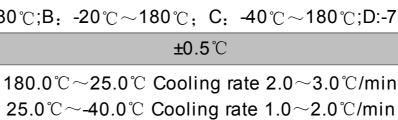
Mobile phone scan can visit our official website



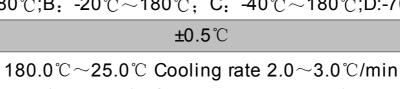
SMC-150-CC-FB

SMC-80-CC-FB





SMC-225-CC-FB SMC-408-CC-FB



-70℃~180℃







Transport test

Simulate

air transport,

road transport

(UN) specification



Temperature

Specifications

remperature		-40.0 ℃ ~-70.0 ℃ Cooling rate 0.7 ~ 1.5 ℃/min									
	Heating rate	-70.0℃~180.0℃ Within 60 mins 3.0~5.0℃/min									
		±1.5℃ (-40.0℃~100.0℃)									
	Temperature uniformity	±2.0℃ (100.1℃~180.0℃or-40.0℃~-70.0℃)									
	Humidity control range	20.0%RH~98.0%RH									
Humidity	Humidity fluctuation	±1.0% RH									
	Humidity uniformity	±2.0%RH									
	Internal material	Adopts 1.2mm thickness stainess steel(SUS304)									
	External material	Adopts 1.2mm thickness Cold rolled steel sheet / powder spraying									
	Heat insulating material	100mm thickness polyurethane plate+10mm thickness mineral wool									
	Fan	Centrifugal blower									
Material /	Compressor	Semi-closed Germany Bock, Germany Bitzer									
components	Condenser	Air cooling, water cooling									
	Refrigerant	R404A、R23、R508									
	Evaporator	Fin - and - Tube Heat Exchanger									
	Heater	Nickel chromium alloy heating wire									
	Humidifier		Steam humidifier								
	Standard configuration	2 100MM pressure relief port, 4 explosion-prood chains									
	Multipoint temperature monitor	Adopts Sanwood developed controller, which can be used to acquire surface temperature points of multiple products									
Options	C02 fire extinguisher	Automatic fire extinguishing and automatic shutdown of the machine to protect the equipment from burning									
	C0, H2 gas detector	When the battery will produce gas, it will detect gas solubility and discharge to outdoor when it exceeds the standard									
	Exhaust valve	When the test sample produces harmful gas, ventilate and exhaust internally									
	Interior size(mm) W*H*D	500*500*400	500*600*500	500*750*600	800*850*600	1000*1000*800	1000*1000*1000	1200*1000*1250			
Size	Outer size(mm) W*H*D	700*1680*1180	700*1720*1275	700*1930*1290	1000*2050*1400	1200*2100*1590	1200*100*1780	1400*2100*2030			
	Volume (m³)	80L	150L	225L	408L	800L	1000L	1500L			
	Weight	280	380	450	620	680	840	955			
Operating ambient temperature					+5 ~ 35℃						
Power supply		220V AC 50/60Hz 22A	220V AC 50/60Hz 31A	220V AC 50/60Hz 33A	380V AC 50/60Hz 17A	380V AC 50/60Hz 25A	380V AC 50/60Hz 27A	380V AC 50/60Hz 50A			
Controller		Adopting SANWOOD self-developed controller, it can test the surface temperature of the sample with multiple temperature sensors.									



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