

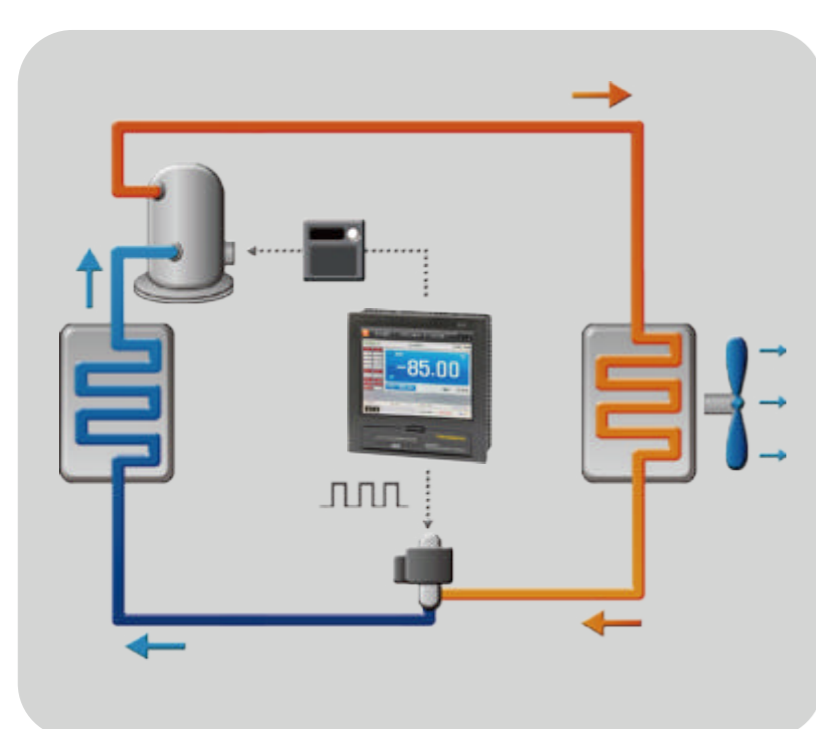
Walk in Battery Explosion Proof High & Low Temperature Chamber



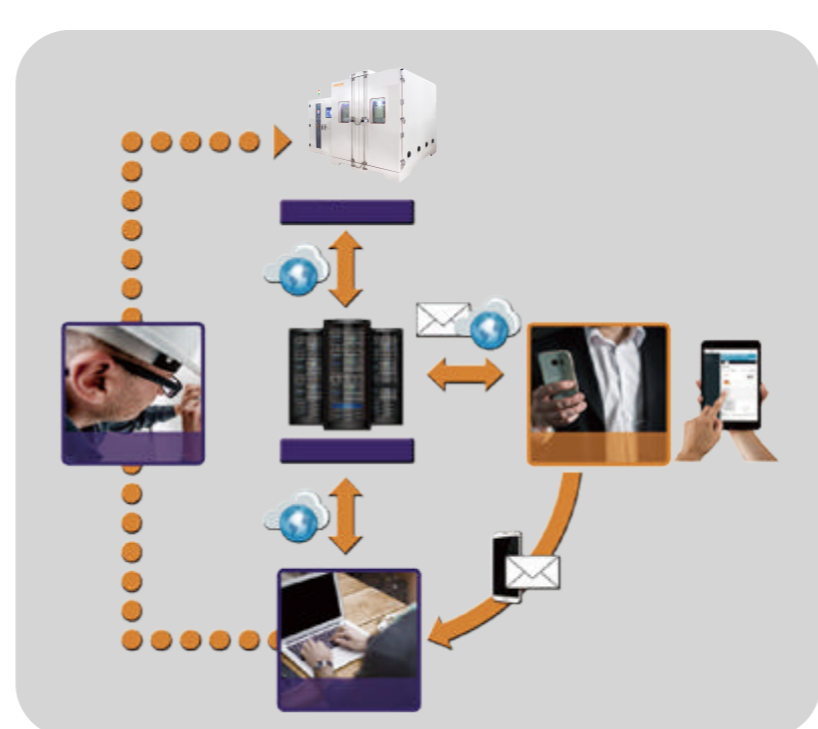
Battery Explosion Proof High & Low Temperature Chamber

High & Low Temperature Chamber

Battery High & Low Temperature Chamber



Energy Conservation



Remote network system



Circuit System

U K international standard

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



Heat

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



Fire

Burn somebody directly, or may cause products with battery fire.



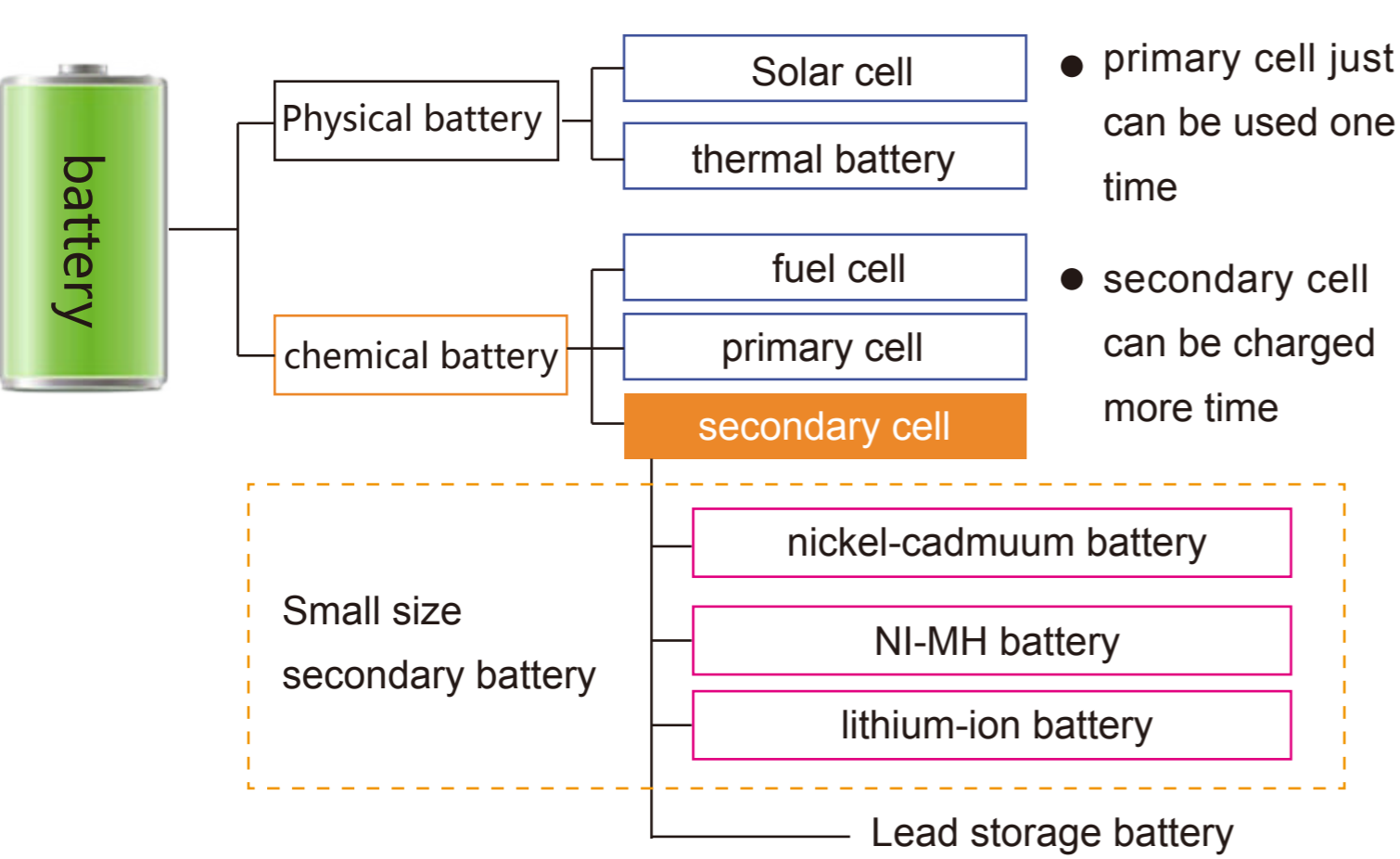
Explosion

Harm somebody directly or damage equipment

What test should be battery made?

Secondary battery environmental test

Battery type



Lithium-ion batter advantages:

- Small size**
 - portability energy 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 need equipped with a few batteries, small size and portability.
- 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.

Environmental test necessity and test method

The necessary reason for environmental test

With secondary battery widely used, the environment will also be changed as mobile phones, computers, household appliances, electric tools, automobile such area change

Necessary test

Secondary battery applied in chemical reaction, and chemical reaction affected by environment (especially the temperature) a lot

Low/High Temp. Performance Test	preservation test	Charge/discharge test	Transport test
charge or discharge under different environmental temperature to check secondary battery performance under such temperature condition	Under specific environment to long-time use battery and test battery leakage and safety performance	under specific environment to charge/discharge battery repeatedly and check every battery performance	Simulate air transport, road transport (UN) specification
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 requirement: acceleration 150G and maintain 6s on peak value



Options



VAnti heat accumulation device



Explosion-proof pressure relief



Explosion-proof door lock



pressure relief device



Hydrogen sensing device



CO2 tank

Specifications

Model	SMC-080-CC-FB-WT	SMC-120-CC-FB-WT	SMC-160-CC-FB-WT	SMC-250-CC-FB-WT	SMC-340-CC-FB-WT	SMC-400-CC-FB-WT
Temperature range	-65℃~80℃(+15℃) (A:0℃~80℃;B: -20℃~80℃; C: -40℃~80℃;D:-65℃~80℃)					
Temperature fluctuation	±0.5℃					
Cooling rate	180.0℃~25.0℃ Cooling rate 2.0~3.0℃/min 25.0℃~40.0℃ Cooling rate 1.0~2.0℃/min -40.0℃~-70.0℃ Cooling rate 0.7~1.5℃/min					
Heating rate	25℃→+100℃/within 25 mins (with standard load)					
Temperature uniformity	±2.0℃ (-40.0℃~80.0℃) ±2.5℃ (-40.0℃~-65.0℃)					
Humidity control range	20.0%RH~95.0%RH					
Humidity fluctuation	±1.5% RH					
Humidity uniformity	±3.0%RH					
Internal material	Stainless steel(SUS304)					
External material	Cold rolled steel sheet / powder spraying					
Heat insulating material	100mm thickness polyurethane plate + 10mm thickness mineral wool					
Fan	Centrifugal blower					
Compressor	Semi-closed Germany Bock, Germany Bitzer					
Condenser	Water-cooled					
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-proof chains					
Multipoint temperature	Adopts Sanwood developed controller, which can be used to acquire surface temperature points of multiple products					
CO2 fire extinguisher	Automatic fire extinguishing and automatic shutdown of the machine to protect the equipment from burning					
CO, 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)	1970*2100*1970	3020*2100*1970	4070*2100*1970	3020*2100*4070	4070*2100*4070	5120*2100*4070
Outer size(mm)	2170*2350*3500	3220*2350*3500	4270*2350*3500	4650*2350*4270	5720*2350*4270	5320*2350*6150
Volume (m³)	8.0m³	12.0m³	16.0m³	25.0m³	34.0m³	40.0m³
Power supply	380V AC 50/60Hz					
Controller	Adopts Sanwood developed controller, which can be used to acquire surface temperature points of multiple products					

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