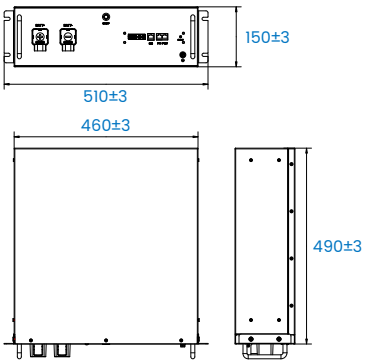
Solid-state Batteries

LR51103AS / LR51103ES

Product Appearance

Product Size



Net Weight: 44.8±0.5kg

Packaging Size

Gross Weight: 48.65±0.5kg

Features

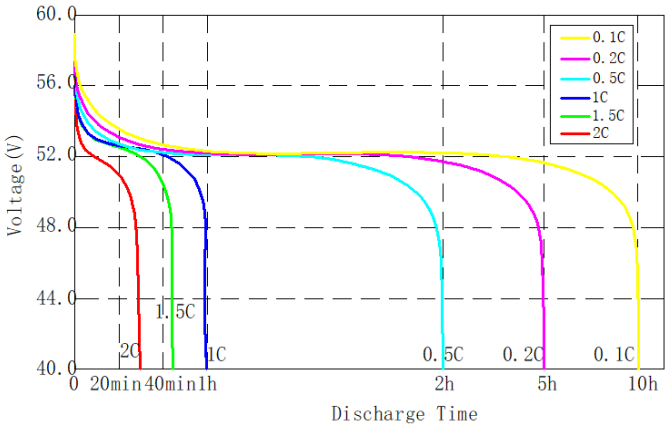
- A grade brand new solid-state cells
- > 5000 cycles @80% DOD(25°C, 0.5C)
- Over charge, over discharge, over temperature, low temperature, over current and short circuit protection
- Compatible with most inverters on the market
- Cell balance function
- Metal Case, excellent heat dissipation, more safety
- Certificate: UN38.3, MSDS, IEC62619, RoHS
- Max 32 battery packs can be connected in parallel

Electrical Characteristics

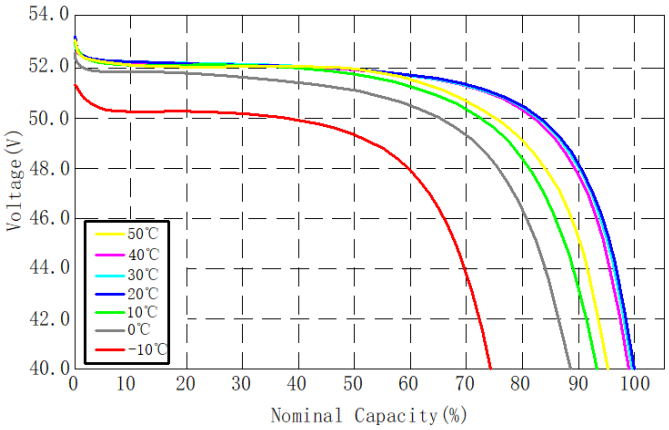
Model	LR51103AS	LR51103ES
Electrical Parameter		
Battery Type	Solid-state	
Nominal Voltage (V)	51.2	
Nominal Capacity (AH)	103	
Energy (WH)	5273	
Pack Mode	16S2P	
Charge Cut-off Voltage (V)	57.6	
Discharge Cut-off Voltage (V)	41.6	
Max.Charge Current (A)	100	
Max.Discharge Current (A)	100	
Recommend Discharge Current (A)	50	
Recommend Discharge Depth (%)	80	
Cycle Life	> 5000 cycles (25°C, 0.5C) 80% DOD	
Function	Optional:Bluetooth/WIFI/Heating/Aerosol/Breaker	
Communication	RS485 RS232 CAN	
Display	LCD	LED
Mounting	Rack-mounted	
Environmental Parameter		
Charge&Discharge Temperature (°C)	Charge: 0°C~+50°C / Discharge: -20°C~+50°C	
Optimal Storage Temperature (°C)	5°C ~ +35°C	
Relative Humidity	40%~80%	
Ingress Protection	IP21	
Mechanical Parameter		
Terminal	M8	
Dimensions (W×H×D) (mm)	460×490×150	
Weight (Kg)	44.8±0.5	
Certification	UN38.3, MSDS, IEC62619, RoHS	

Performance Characteristics

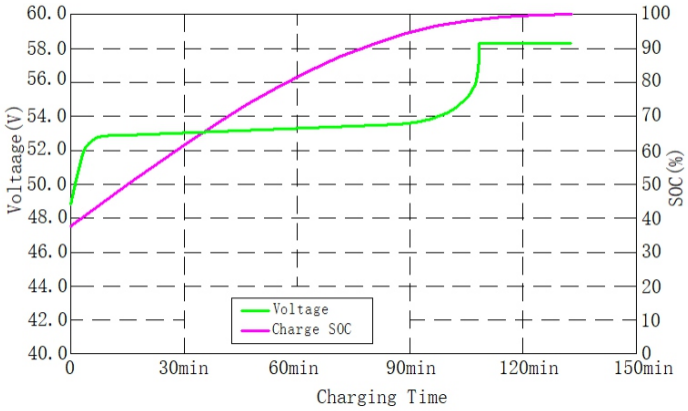
Different Rate Discharge Curve@25°C



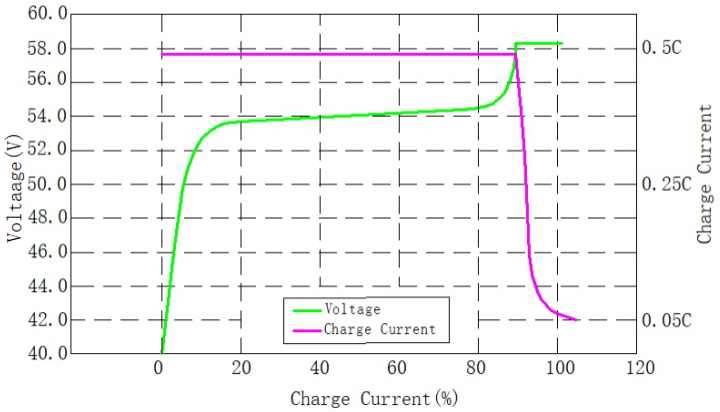
Different Temperature Discharge Curve@0.5C



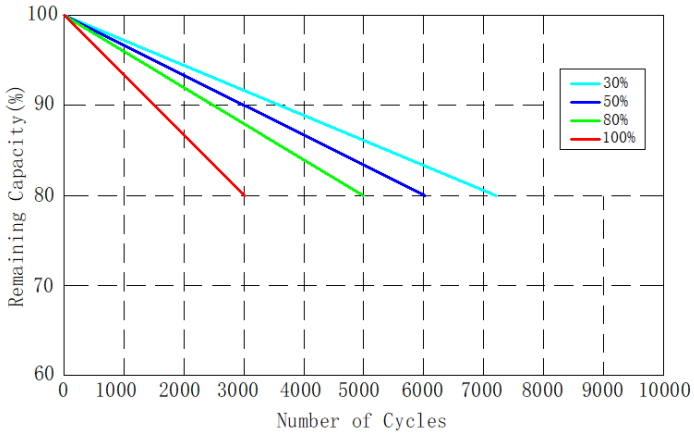
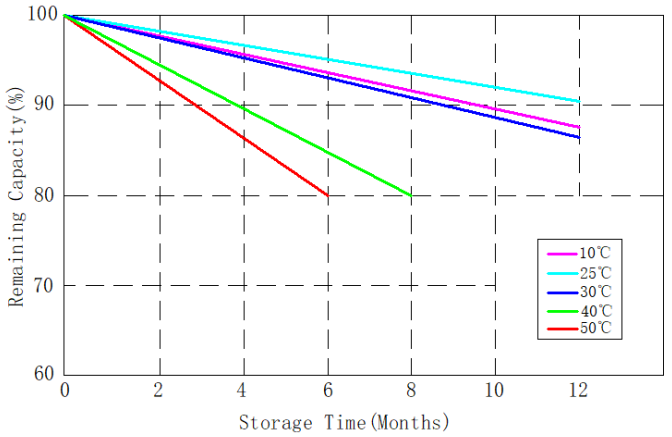
State of Charge Curve@0.5C 25°C



Charging Characteristics @0.5C 25°C



Different DOD Discharge Cycle Life Curve@0.5C 25°C



Different Temperature Self Discharge Curve