



ML5K-HVR-01

High Voltage LiFePo4 Battery

100Ah 51.2V



1.Scope

This document describes the product specification and using condition of the Lithium ion battery

Model	ML 5K-HVR-01
Energy	5.12KWh
Operatingvoltage range	220~1000V
Dimension(L*W*H)	502*580*2173mm

Single Module Technical Specification

Dimension (L*W*H)	High VoltageBox: 552*502*163mm, Battery Box:580*502*197mm
Nominal voltage	51.2V
Nominal capacity	100Ah
Energy	5.12KWh
Recommendedchargingcurrent	50A
Max continue charge current	100A
Max continuedischarge current	100A
Chargingtemperature	0-55°C
Discharge temperature	-20-60°C
Environment	Indoor
Altitude	3000m
Relative humidity	5%~95%
Cooling	Forced air cooling
Celltechnology	Lithium-iron phosphate (LiFePO4)
Protection rating	IP20
Life cycle	6000 times @80%DOD(25°C)
Communication	CAN/RS485
Extendedfunction	Thermal aerosol fire extinguishing device (standard)
Certificates	IEC 62619, IEC 61000, UL 1973, UL 9540A, UN38.3, MSDS
weight	48Kg
Number of battery	15
Number of Cluster	4 parallel

1. Technical Specification

Battery Module model	No.Of High-Voltage BoX	Number of battery Modules	Battery System Capacity	Battery System Voltage	Operating Voltage Range
ML 5K-HVR-01	1	6	30.72kWh	307.2V	273.6~355.2V
		7	35.84kWh	358.4V	319.2~414.4V
		8	40.96kWh	409.6V	364.8~473.6V
		9	46.08kWh	460.8V	410.4~532.8V
		10	51.2kWh	512V	456~592V
		11	56.32kWh	563.2V	501.6~651.2V
		12	61.44kWh	614.4V	547.2~710.4V
		13	66.56kWh	665.6V	592.8~769.6V
		14	71.68kWh	716.8V	638.4~828.8V
		15	76.8kWh	768.0V	684~888V
		16	81.92kWh	819.2V	729.6~947.2V
		17	87.04kWh	870.4V	775.2~1006.4V