

VCHB-2.5K-ST

Features

- High-voltage LiFePO4 battery solution, Single module is 51.2V/50Ah/2.56kWh.
- 3 to 10 layers recommended.
- Cobalt Free Lithium Iron Phosphate (LFP) Battery: Maximum Safety, Life Cycle and Power.
- Applicable on grid or hybrid on and off-Grid solar energy storage system.
- Self-Consumption Optimization for Residential and Commercial Applications.
- Modular Design Simplifies Transport and Installation.

VCHB-2.5K-ST
Residential LFP Battery Series



Specification

Model	VCHB-2.5K-ST							
Capacity	153.6V50Ah	204.8V50Ah	256V50Ah	307.2V50Ah	358.4V50Ah	409.6V50Ah	460.8V50Ah	512V50Ah
Number of layers	3layers	4layers	5layers	6layers	7layers	8layers	9layers	10layers
Energy	7.68KWh	10.24KWh	12.8KWh	15.36KWh	17.92KWh	20.48KWh	23.04KWh	25.6KWh
Operating Voltage Range	134.4V~168.48V	179.2V~224.64V	224V~280.8V	268.8V~336.96V	313.6V~393.12V	358.4~449.28V	403.2V~505.44V	448V~561.6V
Dimension (L*W*H)mm	600*210*870	600*210*1030	600*210*1190	600*210*1350	600*210*1510	600*210*1670	600*210*1830	600*210*1990
Weight(KG)	102.5	129	155.5	182	208.5	235	261.5	288
Recommend charge current	25A							
Max continue charge current	50A							
Max continue discharge current	50A							
Peak current	100A/1s							
Display	The information of Battery, such as SOC, battery voltage and so on							
Communication	Support RS485/CAN							
Maximum parallel support	4 clusters (3 to 10 units per cluster)							
Charging temperature	0°C ~ 55°C							
Discharge temperature	-20°C ~ 60°C							
Environment	Indoor							
Relative humidity	5% ~ 95%							
Cooling	Natural convection							
Cell technology	Lithium-iron phosphate (LiFePO4)							
Protection Rating	IP65							
Lifecycle	6000 times @ 80% DOD							
Certificates	CB, IEC62619, CE-EMC, CE-GP5D, UKCA, UL1973, UL9540A, IEC/EN62040; UN38.3, MSDS							
Single module Technical Specification								
Module	51.2V50Ah, 2.56kWh							
Dimension (L*W*H)mm	High Voltage BDU: 600*210*250 Battery Pack: 600*210*160							
Weight (KG)	High Voltage Box: 14 Battery Box: 28							