

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	3 layers	4 layers	5 layers	6 layers	7 layers	8 layers	9 layers	10 layers
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 soon							
Communication	Support RS485/CAN							
Maximum parallel support	4 clusters (3 to 10 units per cluster)							
Charging temperature	0℃ ~ 55℃							
Discharge temperature	-20℃ ~ 60℃							
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-GP, SD, 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							