

# Residential Lithium-ion Battery System

Model: HB-5K  
20.48-51.20kWh



- Massive Capacity: 20.48–61.44kWh per unit
- Ultimate Scalability: 32 in parallel to ~2MWh
- High Voltage: Up to 691.2V, low loss. Long Life: 8000 cycles, 10-year warranty
- Flexible Deployment: Stationary or mobile. Wide Temperature: Discharge down to -20° C

## Battery Data

Model	RM5K-20K	RM5K-25K	RM5K-30K	RM5K-35K	RM5K-40K	RM5K-45K	RM5K-50K
Cell Chemistry	LFP 100Ah						
Pack Configuration	1P64S	1P80S	1P96S	1P112S	1P128S	1P144S	1P160S
Rated Energy (kWh)	20.48kWh	25.60kWh	30.72kWh	35.84kWh	40.96kWh	46.08kWh	51.20kWh
Rated Voltage (V)	204.8V	256V	307.2V	358.4V	409.6V	460.8V	512V
Operating Voltage Range (VDC)	179.2-230.4	224-288	268.8-345.6	313.6-403.2	358.4-460.8	403.2-518.4	448-576
Max. Continuous Charge/ Discharge Current (A)	60A						
Dimensions (L*W*H) (mm)	553*503*1,011	553*503*1,620		553*503*2,230			
Weight (kg)	236.8kg	278kg	319.2kg	360.4kg	401.6kg	442.8kg	484kg
BMS Communication	CAN						
Depth of Discharge (%)	90%						
Serial And Parallel Quantities	8 Units in parallel						

## General Data

Display	LED
IP Rating	IP20
Operating Temperature (°C )	Charge: 0 - 55° C/ Discharge: -20 ~ 60° C
Relative Humidity	0 ~ 95%, Non-condensing
Altitude (m)	4,000m (Derating above 2,000m)
Cycle Life	6,000 Cycles
Safety Protection	Over Charge/Discharge Protection, High/Low Temperature Protection, Over Current Protection, Short Circuit Protection, Cell Voltage Balancing.
Installation Method	Stationary/ with Wheels
Certifications	CE, RoHS, UN38.3

This high-voltage modular storage cabinet offers 20.48-51.20kWh per unit and supports large-scale parallel connection up to 1.6MWh. It provides large-capacity, long-life (8,000 cycles) core storage solutions for high-consumption villas, SME microgrids, or community energy storage stations.