

5/10/16kWh Low-voltage Battery ESS

Residential BESS Solution



Flexible Parallel Expansion

5.12kWh~16.076kWh modular units, parallel up to 16 modules (257kWh max), scalable wiring for residential storage expansion



Distributor CRM Portal

Cloud-based CRM on distributor side for remote customer asset tracking, after-sales management and proactive service



Universal Inverter Compatibility

Compatible with 20+ major inverter brands including Deye, Growatt, GoodWe, SMA, Victron via CAN/RS485/RS232



Smart BMS & Monitoring

Intelligent BMS with SOC/SOH real-time display, LCD interface, automatic charge/discharge optimization



IP65 Outdoor Rating

IP65 dust/water protection, C3 anti-corrosion, -20°C~60°C discharge temperature for outdoor wall mounting



OTA Online Updates

Remote firmware upgrades via WiFi/Ethernet, keeping system software current without site visits

Model	HC-UPSRB5		HC-UPSRB10	HC-UPSRB16
AC				
Compatible Inverter Power	5kW (For Single Module)	5kW (For Single Module)	7KW (For Single Module)	
Max. Charge Current	100A	103A	155A	
Max. Continuous Discharge Current	100A	150A	155A	
Rated Voltage	51.2V			
Recommended Charge Voltage	57.6V			
Monitoring and Protection	Equipped with intelligent BMS and circuit breakers			
Battery				
Cell Type	LiFePO4			
Battery Cell	3.2V/100Ah	3.2V/206Ah	3.2V/314Ah	
Resistance	50% SOC			
Scalability	Up to 16 Units,Suggest 8 Units Max.			
Voltage Range	43.2-57.6V			
Rated Capacity	5.12kWh	10.24kWh	16.076kWh	
System				
Weight	48kg	87kg	117kg	
Dimensions (W/D/H)	440*175*610mm	530*235*710mm	530*235*810mm	
IP Rating	IP65			
Anti-corrosion Rating	C3			
Terminal Type	Quick Connector			
Discharge Temperature	-20~60℃			
Charge Temperature	0~45℃			
Display	LED			
Communication	CAN/RS485	CAN/RS232/RS485	CAN/RS232/RS485	
Certification	CE/IEC62619/CEI-021/UN38.3/MSDS	CE/UN38.3/MSDS	CE/UN38.3/MSDS	
Compatible Inverters	DEYE /Afore/MEGAREVO/SOLIS/Growatt /LUXPOWER/Voltronics/Goodwe/SMA/Victron/SOROTEC/MUST/etc.			
Depth Of Discharge	90%DOD			
Cell Cycle Life	≥6000 Cycles		≥8000 Cycles (80%SOH@Standard Cycle)	

System Diagram

