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 l6 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*610*175mm	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@Stardard Cycle)

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℃~60℃ discharge temperature for outdoor wall mounting

OTA Online Updates

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

System Diagram