

50 kW / 129 kWh AIR-COOLED ENERGY STORAGE CABINET

YJC-EES-H-A-86kWh / 107.5kWh / 129kWh

129^{kWh} LiFePO₄ **INTEGRATED HYBRID SYSTEM**
 Combines 50 kW hybrid inverter and 129 kWh LiFePO₄ battery in one cabinet for simplified installation and space savings.

8000 cycles **HIGH-EFFICIENCY ENERGY CONVERSION**
 System efficiency ≥90%, 100% depth of discharge, and over 8,000 cycles at 25°C for reliable long-term use.

ADVANCED THERMAL MANAGEMENT
 Intelligent air-cooling and ventilation keep cells at optimal temperatures for safe operation from -20°C to 50°C.

ROBUST FIRE PROTECTION
 Built-in perfluorohexanone fire suppression and alarm system for automatic safety and instant fault alerts.

FLEXIBLE DEPLOYMENT & EXPANSION
 Modular design supports parallel connection to meet growing commercial and industrial energy needs.

EMS BMS **SMART MONITORING & CONTROL**
 Integrated EMS and BMS enable real-time monitoring and optimized energy management.



EES-AC	YJC-EES-H-A-86kWh	YJC-EES-H-A-107.5kWh	YJC-EES-H-A-129kWh
BATTERY SPEC			
Battery Type	LiFePO ₄		
Cell capacity	280Ah		
Rated current	140A		
Max current	160A		
PACK configuration	1P24S		
PACK number	4 PACK/Cluster	5 PACK/Cluster	6 PACK/Cluster
Voltage range	278.4 ~ 345.6Vdc	348 ~ 432Vdc	417.6 ~ 518.4Vdc
Rated voltage	307.2Vdc	384Vdc	460.8Vdc
Rated Energy	86kWh	107.5kWh	129kWh
AC (Grid side) Configurable			
Rated power	30kW	50kW	60kW
Rated grid current	60.8A/57.7A	76A/72.7A	76A/72.7A
Max current	121.6A/115.4A	152A/144.4A	152A/144.4A
Rated grid voltage	3/N/PE,220/380V;3/N/PE,230V/400V		
Connection	3/N/PE		
Rated grid frequency	50Hz/60Hz		
Power factor	0.8(Leading-edge)~0.8(hysteresis)		
THDi	<3%(Nominal Power)		
AC(BACK-UP) Configurable			
Rated power	30kVA	50kVA	60kVA
Rated grid current	60.8A/57.7A	76A/72.7A	76A/72.7A
Rated grid voltage	3/N/PE,220/380V;3/N/PE,230V/400V		
Connection	3/N/PE		
Rated grid frequency	50Hz/60Hz		
Carrying capacity	100%		
THDV	<3%(Linear Load)		
INPUT DC (PV side) Configurable			
Recommended max	80kW	100kW	100kW
Max input current	40A*4	40A*4	40A*4
Max short circuit current	60A*4	60A*4	60A*4
Max input voltage	1000Vdc	1000Vdc	1000Vdc
voltage range	150~850Vdc	150~850Vdc	150~850Vdc
Start-up voltage	180Vdc	180Vdc	180Vdc
MPPT number	4	4	4
SYSTEM PARAMETERS			
Mass(kg)	1300±100kg	1500±100kg	1700±100kg
Dimensions (W×H× D)	850×1200×2100mm		
Max efficiency	≥95%		
Air conditioning power	2kW(Cooling capacity),1kW(The generated heat)		
Operation temperature	-20~60°C(>45°CReduce Amount)		
Operation range	0~95%RH(Freezing is absent.)		
Anti-corrosion	C5		
Cooling concept	Intelligent fan-cooling		
Noise	≤70dB(TBD)		
Max operation altitude	3000m(>2000mReduce Amount)		
Cell Cycle Life	≥ 8000 cycles		
Fire Protection	Aerosol (optionally full perfluoroketone)		
Communication	Ethernet/4G/RS485		
IP level	IP54		
Certification & Safety Standard	CE(IEC61000,IEC62477), IEC62619,UN3480, UN38.3		