

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.

6000 cycles **HIGH-EFFICIENCY ENERGY CONVERSION**
System efficiency ≥90%, 100% depth of discharge, and over 6,000 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.



Product Model	YJC-EES-H-A-129kWh
Battery Parameters	
Battery Type	LiFePO4
Cell Capacity	280 Ah
Rated Current	140 A
Maximum Current	160 A
Pack Configuration	1P24S
Number of Packs	6 Packs/Cluster
Operating Voltage Range	417.6 ~ 518.4 VDC
Nominal Voltage	460.8 VDC
Nominal Energy	129 kWh
AC Grid Side	
Rated Power	50 kW
Rated Grid Current	76 A / 72.7 A
Maximum Current	152 A / 144.4 A
Rated Grid Voltage	3/N/PE, 220/380 V; 3/N/PE, 230/400 V
Connection	3/N/PE
Rated Grid Frequency	50 Hz / 60 Hz
Power Factor	0.8 (leading) ~ 0.8 (lagging)
THDi	<3% (at rated power)
AC (Back-up) Configurable	
Rated Power	50 kVA
Rated Grid Current	76 A / 72.7 A
Rated Grid Voltage	3/N/PE, 220/380 V; 3/N/PE, 230/400 V
Connection	3/N/PE
Rated Grid Frequency	50 Hz / 60 Hz
Load Capacity	100%
THDv	<3% (linear load)
DC Input (PV Side, Configurable)	
Recommended Maximum Power	100 kW
Maximum Input Current	4 × 40 A
Maximum Short-Circuit Current	4 × 60 A
Maximum Input Voltage	1000 VDC
Operating Voltage Range	150 ~ 850 VDC
Start-up Voltage	180 VDC
Number of MPPTs	4
System Parameters	
Mass	1700 ± 100 kg
Dimensions (W × H × D) mm	850 × 1200 × 2100 mm
Maximum Efficiency	≥95%
Air Conditioning Power	2 kW (cooling capacity), 1 kW (heat generation)
Operating Temperature	-20 ~ 60 °C (derating above 45 °C)
Relative Humidity	0 ~ 95% RH (non-condensing)
IP Rating	IP55
Corrosion Protection	C3 / C5
Cooling Method	Intelligent forced-air cooling
Noise Level	≤70 dB
Maximum Operating Altitude	3000 m (derating above 2000 m)
Fire Protection	Aerosol (optional full perfluoroketone)
Communication	Ethernet / 4G / RS485
Certification & Safety Standard	/