

COMMERCIAL AND INDUSTRIAL ESS (AIR COOLING)

A "plug-and-play" energy storage solution that integrates the battery system, BMS, EMS, thermal management system, fire protection system, as well as DC and AC side electrical equipment into one unit.



PARAMETER

Model	HZ1241100AHY (Hybrid)
DC Battery Parameters	
Battery Rated Energy (KWh)	241
Battery Rated Voltage (V)	768
Battery Voltage Range (V)	696 ~ 852
Battery Type	LFP
Battery Energy (Ah)	314
Battery Life Cycle	6,000 Cycles (0.5C, 5%~95%DOD, 80%SOH)
Battery Standard Charge/Discharge Rate (C)	0.5
Battery Pack Series And Parallel	1P240S
Module Cooling Method	Air Cooling
AC Parameters	
Rated AC Power (KW)	100
Maximum Power (KW)	110
Maximum Current (A)	200
Rated AC Voltage (V)	400
AC Voltage Range	±15%
Rated AC Frequency (Hz)	50/60
Wiring Method	3P+N+PE
Current Distortion Rate THDI	< 3% (Rated Power)
Power Factor	±0.99/-1-1
Voltage Total Harmonic Distortion THDU	< 3% (Linear Load)
PCS Cooling Method	Air Cooling
Maximum Efficiency	98.5%
System Parameters	
Energy Cycle Efficiency	≥ 90 %
Protection Level	IP54
Corrosion Resistance Level	C3 is the default, C4/C5 are optional
Fire Fighting	Aerosol/Perfluorohexanone (Optional)
Isolation Method	Not Isolated (Transformer Optional)
Relative Humidity	0~95% (Non-condensing)
Ambient Temperature	-30°C ~ 55°C. (Derating Above 45°C)
Altitude	<3000m (Derating Applies Over 2000m)
BMS Communication	CAN
EMS Communications	4G/CAN/RS485
Dimensions (mm)	1030 * 1350 * 2400
Weight (T)	2.6
Annual Decay Rate	<3%
Warranty	5 years

Battery, EMS, BMS, PCS, DCDC, STS all in one cabinet support on/off-grid system.

PRODUCT FEATURE

10 Over 10 years design life, 5 years warranty

Modular design, high energy density, easy installation

Customized for on/off-grid Systems

Support multi-country grid connection authentication requirements

≥6000 cycle times

Safe, efficient and fast use