ESS-50/100-3P-N-A
ESS-50/200-3P-N-A

HYNER

100 kWh All in One Energy Storage Cabinet
200 kWh All in One Energy Storage Cabinet

Safe and Reliable

- Adopting high-standard automotive-grade design standard to ensure quality and safety.
- Adopting high-quality battery cells from Hithium to ensure safety and efficiency.
- A three-tier management architecture optimizes overall safety performance.
- Adopting multi-level electrical safety protection mechanism to guarantee secure power usage.
- Adopting environmentally friendly flame-retardant materials to minimize the risk of thermal runaway.

High Efficiency

- Temperature difference ≤ 2℃, extending performance and lifespan
- Integrated liquid cooling technology for enhanced environmental adaptability
- Supports flexible expansion, enabling energy configuration tailored to specific requirements for diverse application scenarios.
- Cycle life of 8,500 cycles, ensuring higher return on investment over the entire lifecycle
- High system efficiency with an average comprehensive efficiency of 88%
- Rapid power response supports various modes including grid-connected and off-grid operations.

Convenient Operation and Maintenance

- Occupies only 1.3 square meters, enabling flexible layout options
- Platform-based design facilitates parallel expansion of multiple units.
- Pre-installation and pre-commissioning minimize on-site setup time.
- Refined management with flexible module maintenance methods

Smart and User-Friendly

- Local data collection combined with intelligent monitoring enables remote OTA upgrades.
- Intelligent control strategies enhance profitability.
- Features high compatibility, ensuring seamless integration with a wide range of photovoltaic inverters and energy storage inverters.

Specifications	100kWh	200kWh
Model	ESS-50/100-3P-N-A	ESS-50/200-3P-N-A
Dimension（L×W×H)	1175mm×1120mm×1970mm	1175mm×1120mm×2170mm
Weight	1500kg±100kg	2500kg±100kg
Battery Type	$LiFePO_4$	$LiFePO_4$
Cell Capacity	3.2V/314Ah	3.2V/314Ah
Series-Parallel Mode	1P100S	1P200S
Number Of Battery Modules	5	10
Nominal Voltage	DC:320V	DC:640V
Operating Voltage	DC:250V~365V	DC:500V~730V
Nominal Capacity	314Ah	314Ah
Rated Energy	100.48kWh	200.96kWh
Maximum Current	200A	200A
Altitude	＜5000m（＞2000Power Derating）	
Corrosion Classification	C4H	
IP Grade	IP54	
Cooling Mode	Liquid Cooling	

Power grid	
Rated Output Power	50kW
Maximum Continuous Rating	50kW
Maximum Input Apparent Power	50kVA
Maximum Battery Charging Power	50kW
Nominal Voltage	AC:220/380V; 230/400V；240/415V
AC Connection Type	3L/N/PE
Rated Grid Frequency	50Hz/60Hz
Rated Output Current	AC:75A
Maximum Input Current	AC:121.2A
Maximum Output Current	AC:75.8A
Power Factor	0.8 Lead... 0.8 Lag
Maximum Harmonic Distortion	＜0.3%
DC Component Of Current	＜0.5%

PV input	
Startup Voltage	DC 210V
Operating Input Voltage	DC 620V
Maximum Input Voltage	DC 1000V
MPPT Voltage Range	DC 330~850V

Temperature And Humidity Range	
Charge Temperature	-30℃~60℃
Discharge Temperature	-30℃~60℃
Storage Temperature	-20℃~35℃
Relative Humidity	0~95%RH，Non-condensing

* In case the product size and specifications vary, please refer to the most up-to-date information.