

# ESS-215/418-3P-N-A

## 418 kWh Liquid-cooled ESS



### Safe and Reliable

- Adopting "4+3+2" targeted fire suppression system to provide multiple layers of safeguards.
- 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.

### Convenient Operation and Maintenance

- Platform-based design facilitates parallel expansion of multiple units.
- Refined management with flexible module maintenance methods
- Pre-installation and pre-commissioning minimize on-site setup time.

### High Efficiency

- An self-controlled liquid cooling system maintains the cell temperature difference of  $\leq 2^{\circ}\text{C}$ .
- 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%.
- Long-life LFP cells offer higher returns on investment.
- The string architecture eliminates circulating current, maximizing power utilization.
- Rapid power response supports various modes including grid-connected and off-grid operations.

### Smart and User-Friendly

- Local data collection combined with intelligent monitoring enables remote OTA upgrades.
- Intelligent control strategies enhance profitability.

## Specifications

Model	ESS-215/418-3P-A
Dimension (L×W×H)	1440mm×1320mm×2475mm ( Ring hanger is not included )
Weight	3900kg±100kg
Series-parallel Mode	1P416S
Nominal Voltage	DC: 1331.2V
Rated Capacity	314Ah
Rated energy	418kWh
Operating Voltage	DC: 1040V~1518.4V
Max Current	200A ( DC side )
Overall Efficiency	≥88%@25°C±2°C, 0.5P
Cycle Life	≥8500cls@25°C±2°C, 0.5P, 70%SOH
IP Grade	IP54

## AC grid-connected

Nominal Voltage	AC: 690V
Max Current	AC: 180A
Rated power	215kW@25°C±2°C
Rated grid frequency	50Hz/60Hz
Off-grid output THDU	≤3% (linear load)
Nominal Voltage	Three phase three wire

## AC off-grid

Max Voltage	AC: 690V±3%
Max Current	AC: 180A
Rated power	215kW@25°C±2°C
Rated frequency	50Hz/60Hz

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