

# Pre-fabricated Battery Energy Storage System

TBAT-1720-10/2150-15/3354-15/3870-10/5017-15/6709-15



## Product Overview

The pre-fabricated BESS is engineered to meet megawatt-level power output demands. It integrates the BESS, battery management system, DC cabinet, temperature control, and fire protection systems, making it compatible with the BESS inverter for various BESS application scenarios.



40 feet, 6.7MWh maximum, ultra-high functional density;



Anti-corrosion grade of C3, service life of up to 25 years



Intelligent air cooling/liquid cooling and heating pipe system, with temperature difference in the box  $<5^{\circ}\text{C}$



Assembled transportation, quick installation



High altitude design, with operation altitude up to 5000 m



Full range of active fire safety system



Photovoltaic power stations improving the penetration rate of new energy



Suitable for utility-scale BESS application scenarios



| Model                         | TBAT-1720-10  | TBAT-2150-15   | TBAT-3354-15   | TBAT-3870-10    | TBAT-5017-15    | TBAT-6709-15    |
|-------------------------------|---|----------------|----------------|-----------------|-----------------|-----------------|
| Box size                      | 20feet  | 20feet         | 20feet         | 40feet          | 40feet          | 40feet          |
| Voltage specifications        | 1000V   | 1500V          | 1500V          | 1000V           | 1500V           | 1500V           |
| Battery Type                  | Lithium iron phosphate                                    |                |                |                 |                 |                 |
| Group mode                    | 1P240S  | 1P400S         | 1P416S         | 1P240S          | 1P400S          | 1P416S          |
| Number of battery clusters    | 8   | 6              | 9              | 18              | 14              | 18              |
| Nominal Voltage               | 768V  | 1280V          | 1331.2V        | 768V            | 1280V           | 1331.2V         |
| Voltage range                 | 672-840V  | 1120-1400V     | 1164.8-1456V   | 672-840V        | 1120-1400V      | 1164.8-1456V    |
| Nominal Capacity              | 2240Ah  | 1680Ah         | 2520Ah         | 4480Ah          | 3920Ah          | 5040Ah          |
| Nominal Capacitance           | 1.72MWh   | 2.15MWh        | 3.354MWh       | 3.87MWh         | 5.017MWh        | 6.709MWh        |
| Charge-discharge ratio        | 0.5C  |                |                |                 |                 |                 |
| Charge-discharge current      | 1120A   | 840A           | 1260A          | 2240A           | 1960A           | 2520A           |
| Charging Temperature Range    | 0-50°   |                |                |                 |                 |                 |
| Discharge Temperature Range   | -20-50°C  |                |                |                 |                 |                 |
| Cooling method                | Air cooling   | Air cooling    | Liquid cooling | Air cooling     | Air cooling     | Liquid cooling  |
| Relative humidity             | ≤95%RH, non-condensing                                    |                |                |                 |                 |                 |
| Operating Altitude            | 4000 m (>4500m, it will operate in derating)              |                |                |                 |                 |                 |
| Protection Grade              | IP54  |                |                |                 |                 |                 |
| Corrosion protection grade    | C3  |                |                |                 |                 |                 |
| Fire fighting design          | Heptafluoropropane/Perfluorohexanone Extinguishing Medium |                |                |                 |                 |                 |
| Weight of equipment           | 19T   | 23T            | 28T            | 40T             | 52T             | 70T             |
| Outline Dimensions (WxDxH) mm | 6058x2438x2591  | 6058x2438x3015 | 6058x2600x2896 | 12192x2438x2596 | 12192x2438x3015 | 12192x2600x2896 |

