

# Battery System

iBAT-WBS-215H



**HOENERGY**  
HOLD YOUR ENERGY



## Six Features for Safety Protection

### ● High Quality Battery Cell

Long cycle life: More than 6000 cycles @ 80% DOD;

Passed International Certifications:

IEC 62619; UL 1973, UL 9540A, UN 38.3, GB/T 36276,

Meet the most stringent cell intrinsic safety requirements.

### ● Modular Design

Avoid short circuit, flexible buffering between cells, overall elastic restraint to reduce the influence of cell expansion;

Air duct between cells effectively control heat accumulation & avoid thermal runaway.

### ● Thermal Management System

Perfect thermal management technology through simulation and actual testing, to control the temperature rise in the battery system to <math><5^{\circ}\text{C}</math>

### ● Integrated production

More than 20 complete control processes

More than 100 MES data points

More than 500 quality control points

All data upload to the cloud for long-term traceability.

### ● Rigorous Tests

Passed 28 safety & reliability tests, 500 performance testing.

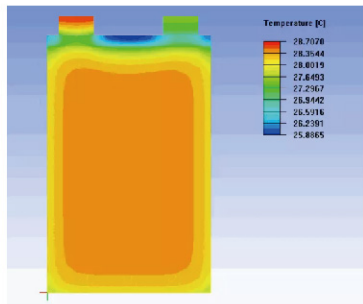
### ● Operation Guarantee

Two-stage battery safety management system

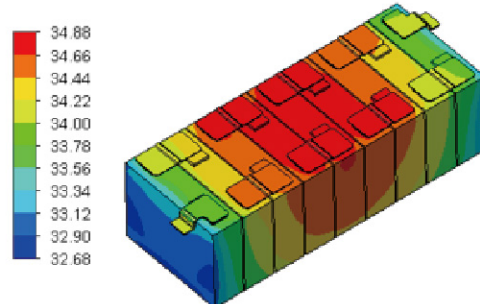
Full coverage of key sampling points to build a complete IoT

Real-time monitoring feedback, fault diagnosis and warnings

Triple protection, blocking risk spread

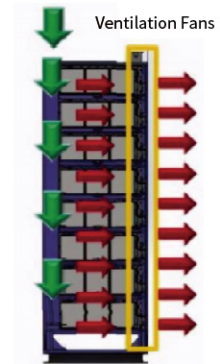


**Battery cell temperature distribution**



**Battery module temperature distribution**

Air flow from air conditioner



**Battery system temperature control**

|                       |                                  |                           |
|-----------------------|----------------------------------|---------------------------|
| <b>Model</b>          | Battery system                   | iBAT-WBS-215H             |
|                       | Battery pack                     | iBAT-WM-14.33H            |
| <b>Technical Data</b> | Battery type                     | Lithium iron phosphate    |
|                       | Battery cell                     | 3.2V, 280Ah               |
|                       | Combination                      | 1P240S                    |
|                       | Nominal capacity                 | 215kWh                    |
|                       | Nominal voltage                  | 768V                      |
|                       | Voltage range                    | 600~876V                  |
|                       | Nominal charge/discharge current | 140A                      |
|                       | Cooling                          | Air cooling               |
|                       | Permutation type                 | 2 columns, 8 rows         |
|                       | Key components                   | 15 packs, 1 HV switch box |
|                       | Operating temperature            | -20~55 °C                 |
|                       | Humidity                         | ≤90% (Non-condensing)     |
|                       | Altitude                         | ≤ 3000m                   |
|                       | Protection level                 | IP20                      |
|                       | Dimensions (LxWxH)               | 1154*822*2268 mm          |
| Weight                | 1.9t                             |                           |

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