

# TBCH-372

## Energy-matrix Liquid Cooling Battery Cabinet



### 🛡️ Safety protection

- ④ Liquid leak proof design
- ④ Integrated liquid guide tank
- ④ Real-time liquid leakage detection
- ④ 50%+ temperature measuring point
- ④ Independent fire protection for electrical warehouse

### ⚡ Efficiency improvement

- ④ +7% — More usable capacity
- ④ +20% — Longer operating cycle
- ④ ≤3°C — Smaller temperature difference range
- ④ +24% — Higher energy density
- ④ -9% — Lower power supply cost

### 🔄 Flexible configuration

- ④ Flexible foundation design
- ④ Flexible spatial layout
- ④ Flexible capacity configuration
- ④ Flexible maintenance and replacement

## Technical Parameters

| Product                                |  |
|--|--|
| Specification                          | TBCH-372   |
| Battery pack                           |  |
| Cell Specification                     | LFP280Ah   |
| Cell Number                            | 52   |
| Nominal Electric Quantity              | 46.5kWh  |
| Battery cabinet                        |  |
| Pack Number                            | 8  |
| Battery Cluster Configuration          | 1P416S   |
| Nominal Electric Quantity              | 372kWh   |
| Rated Charging And Discharging Power   | 186kW  |
| Nominal Voltage                        | 1331.2V  |
| Operating Voltage Range                | 1040~1497.6V                                       |
| Charge And Discharge Ratio             | 0.5P   |
| Rated Current                          | 140A   |
| Suitable Operating Temperature Of Cell | 25±5°C   |
| System                                 |  |
| Cycle Life                             | ≥6000 ( 25°C±5°C , 90%DOD , EOL80% )               |
| Calendar Life                          | 10 years   |
| Energy Efficiency                      | ≥94% ( 25±5°C )                                    |
| Standard Parallel Counter Count        | 1~18   |
| Cooling Method                         | Liquid cooling                                     |
| Extinguishing Agent                    | Perfluorohexanone + aerosol                        |
| Pack Detector                          | Four in one detection: CO, VOC, smoke, temperature |
| Dimensions(H×W×D)                      | ≤2300*1300*1300                                    |
| Weight                                 | ≤3500kg  |
| IP Code                                | Pack IP67; High pressure case IP65; cabinet IP55   |
| Operating Temperature                  | -30°C~55°C   |
| Relative Humidity Range                | ≤95%   |
| Max. Operating Altitude                | ≤3000m   |
| Certification                          | GB/T 36276 , GB34131 , UN38.3                      |
| Control cabinet                        |  |
| Communication Interface To EMS         | Fiber/Ethernet (A/B dual network)                  |
| Communication Protocol To EMS          | Modbus-TCP ( IEC104/IEC61850 optional )            |
| Dimensions(H×W×D)                      | ≤2300*700*1300                                     |