



# High Voltage Liquid Cooled 20-Foot HQ Battery Container



## STAND-ALONE ENERGY STORAGE

### Embrace the Future of Energy Storage

Standalone energy storage facilities are essential for meeting the increasing demand for reliable energy storage as renewable energy sources gain prominence. These facilities capture excess renewable energy, contributing to grid stability and sustainability. They offer comprehensive solutions that optimize energy utilization and reduce costs, providing a reliable energy source for both the national grid and new power plant investments. Equipped with advanced technology, these facilities ensure 24/7 monitoring and control for optimal performance. Key benefits include enhanced grid stability, scalability to meet evolving energy storage needs, cost-effectiveness, and reliability. These facilities are crucial for enabling a resilient and sustainable grid as the world transitions to cleaner energy sources.



| APPLICATIONS                      |                                |
|-----------------------------------|--------------------------------|
| + Advanced Energy Management      | + Reliable and Safe Technology |
| + Off-Grid & On-Grid Applications | + Expandable Capacity          |
| + Long Lifetime                   |                                |

| Basic Properties              | PBQ20-6P 416S  | PBQ20-10P 416               | PBA40-16P 240S                  |
|-------------------------------|--|-----------------------------|---------------------------------|
| Cell Type                     | LifePo4-302 Ah   | LiFePO4 - 302Ah - Prismatic | LifePo4-100 Ah-Prismatic        |
| Series/Parallel Configuration | 6P416S   | 10P416S                     | 16P240S                         |
| Nominal Voltage               | 1331.2V  |                             | 768V                            |
| Nominal Current (*)           | 1812Ah   | 3020A                       | 934A                            |
| Nominal Energy Capacity       | 2412kWh  | 4020kWh                     | 1228kWh                         |
| Operating Voltage Range       | 1164.8V - 1497.6V  |                             | 672V - 864V                     |
| Max. Charge Voltage           | 1497.6V  |                             | 864V                            |
| Cycle Life (*)                | ≥6000 Cycles   |                             |                                 |
| Normal Operating Temperature  | 25°C   |                             |                                 |
| Operational Temperature       | -15~40°C   |                             |                                 |
| Storage Temperature (**)      | -20~50°C   |                             |                                 |
| Self Discharge                | Per month ≤ 3%   |                             |                                 |
| Functional Properties         |  |                             |                                 |
| Communication                 | Uplink 3xLAN, Downlink Battery Cluster 2xCAN, PCS CAN/RS485, Aux RS485 |                             |                                 |
| Cooling                       | Liquid Cooling (Integrated Closed Loop)                                |                             | Air Cooled                      |
| BMS Protections               | UV, OV, OC, UT, OT, SC   |                             |                                 |
| LED Indicators                | Alarm, Run, SOC  |                             |                                 |
| Circuit Breaker               | Integrated Master BM of Each Cluster 1500 V 0                          |                             | 1500 V - 350 A- Circuit Breaker |
| Physical Properties           |  |                             |                                 |
| Protection Level              | IP54   |                             |                                 |
| Humidity                      | 0% - 85% RH (non-condensing)   |                             |                                 |
| Altitude                      | <3000 m  |                             |                                 |
| Dimension (WxDxH)             | 5500x2700x2896 mm  | 7500x2700x2896 mm           | 13500x2400x2896 mm              |
| Weight                        | 22 Tons  | 36 Tons                     | 18 Tons                         |

(\*) Test Conditions: 25°C, 90% DOD, 0.5C Charge/Discharge  
 (\*\*) Performance may vary in different conditions