



LOW VOLTAGE ENERGY STORAGE SYSTEM -FOR RESIDENTIAL AND SME

Pylon Technologies Co., Ltd.

As the leading vertically integrated manufacturer of lithium iron phosphate battery systems, Pylontech has provided various battery solutions for nearly all kinds of ESS applications.

Thanks to our self-developed core technology in cells/BMS/system design, Pylontech has delivered more than 2.0GWH batteries serving 120,000+ users.



Vertical industry integration chain



Advantage

- Developed with our own LFP (lithium iron phosphate) cell to ensure the highest safety
- Self-designed BMS protects the cell in all angles such as abnormal temperature, current, voltage, SoC, SoH
- Vertical industry integration ensures more than 6000 cycles with 95% DoD
- Modular design gives the end customers the power of choice of capacity
- Compatible with most of the available Hybrid inverters
- Simple buckle fixing minimize the installation time and cost
- The third generation US2000C and US3000C are compatible with US2000 and US3000
- Provides pre-charge function to protect ESS system from surge current



TUV Rheinland Issues Pylontech with World's First Certificates for the Latest German Energy Storage Standards

PRESS RELEASE PR Newswire

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SHANGHAI, Dec. 21, 2017 /PRNewswire/ -- On December 15, TUV Rheinland issued the first 2Pfg 2511 & VDE-AR-E 2510-50 certificates for the PowerCube-H1-48 product series developed by Pylon Technologies Co., Ltd. ("Pylontech") of Shanghai. The certificate presentation ceremony was attended by representatives from both companies, including Mr. Lutz Frankholz (Managing Director, TUV Rheinland Shanghai), Mr. Li Wei-chun (General Manager, Solar & Fuel Cell, TUV Rheinland Greater China), and Mr. Cai Xue-feng (General Director, Energy Storage Products, Pylontech).

Best High Yield Savings Accounts & MMAs - January 2020

| | Min. for APY | APY |
|-----------------------|--------------|-------|
| Harris Bank | \$5,000 | 1.95% |
| ★★★★☆ Jan 18, 2020 | | |

SWD Harris Bank
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Testing

5.2. Phase 2 Capacity Test Results

Figure 12 shows the estimated state of health (SOH) against cycles completed for each Phase 2 battery pack still cycling. SOH is estimated by dividing the energy delivered at each capacity test by the energy delivered in the first capacity test.

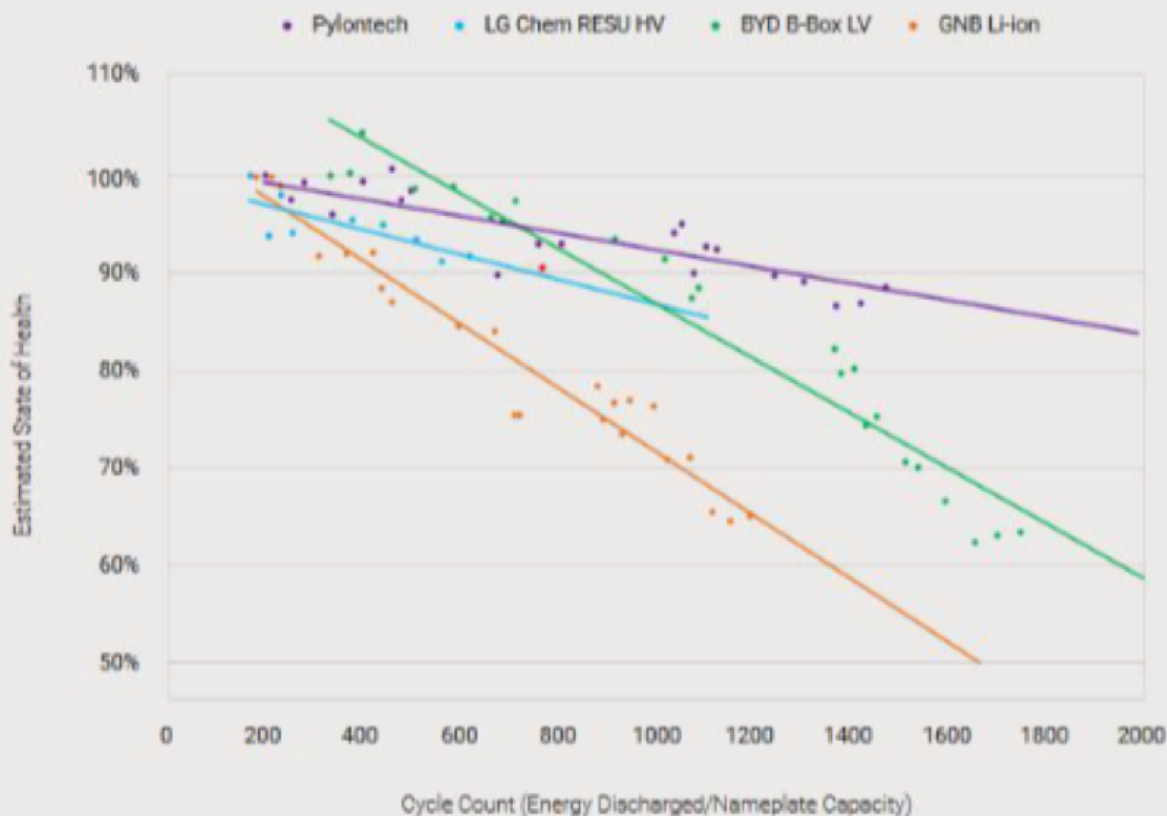


Figure 12. Capacity fade of Phase 2 battery packs based on monthly capacity tests

Specification



| Basic Parameters | US2000C | Phantom-S | US3000C |
|--------------------------------|---|----------------------------------|---|
| Nominal Voltage (V) | 48 | 48 | 48 |
| Nominal Capacity (Wh) | 2400 | 2400 | 3552 |
| Usable Capacity (Wh) | 2280 | 2200 | 3374.4 |
| Dimension (mm) | 442*410*89 | 440*440*88.5 | 442*420*132 |
| Weight (Kg) | 24 | 24 | 32 |
| Discharge Voltage (V) | 45 ~ 53.5 | 45 ~ 53.5 | 45~53.5 |
| Charge Voltage (V) | 52.5 ~ 53.5 | 52.5~53.5 | 52.5~53.5 |
| Charge / Discharge Current (A) | 25(Recommend) | 25(Recommend) | 37 (Recommend) |
| | 50 (Max) | 50 (Max) | 74 (Max) |
| | 90 (Peak@15s) | 100 (Peak@15s) | 90 (Peak@15s) |
| Communication Port | RS485, CAN | RS485, CAN | RS485, CAN |
| Single string quantity(pcs) | 16 | 8 | 16 |
| Working Temperature/℃ | 0~50 | 0~50 | 0~50 |
| Shelf Temperature/℃ | -20~60 | -20~60 | -20~60 |
| Humidity | 5%~85% | 5%~85% | 5%~85% |
| Altitude (m) | <2000 | <2000 | <2000 |
| Design life | 15 ⁺ Years (25℃/77°F) | 15 ⁺ Years (25℃/77°F) | 15 ⁺ Years (25℃/77°F) |
| Cycle Life | >6000, 25℃ | >6000, 25℃ | >6000, 25℃ |
| Authentication Level | UL/IEC62619/CE /UN38.3 | IEC62619/CE /UN38.3 | IEC62619/CE /UN38.3 |
| Feature | Pre-Charge Dual-active protection Flexible current steps Dry contact wake up | | Pre-Charge Dual-active protection Flexible current steps Dry contact wake up |