



# **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 1.5GWH batteries serving 90,000+ users.

Juststandout is the sole representative of Pylontech in West Africa.

Juststandout is an industry leader providing Electrical and Mechanical solutions for business and residential operations. These solutions, where power quality and reliability are essential, could be grid, off grid or for emergency use

With more than 500 operational solutions positioned throughout the West African market, (one of the most challenging in the world) Juststandout has earned the reputation not only as a trusted adviser, but also a reliable and dependable provider of energy, mechanical and electrical solutions.



## *Vertical industry integration chain*



## *Advantage*

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- 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 90% 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

## Award

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# 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).

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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.

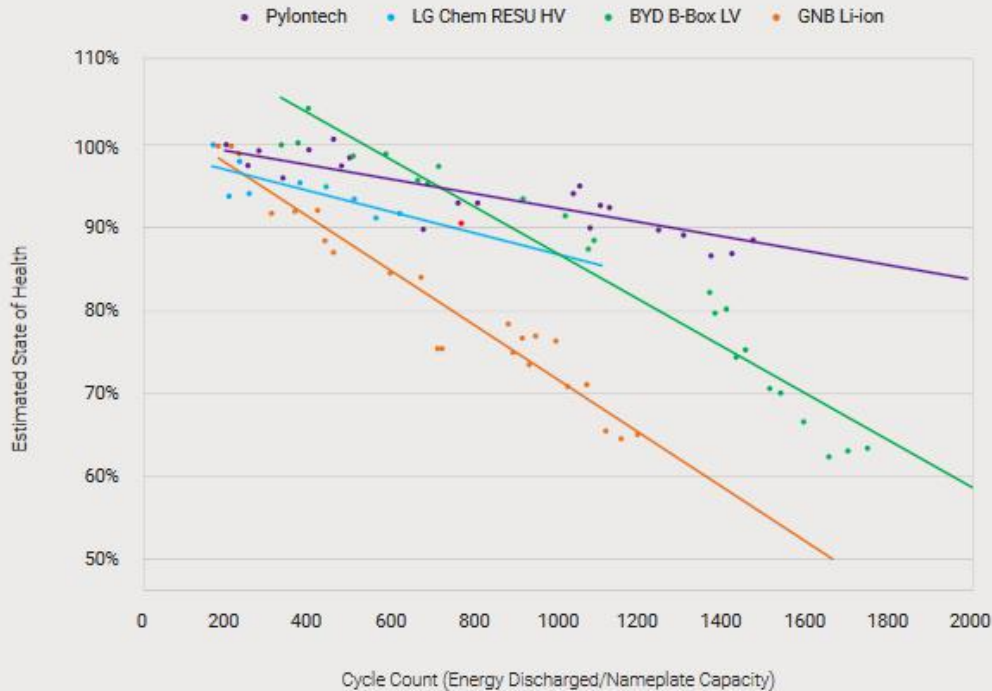


Figure 12. Capacity fade of Phase 2 battery packs based on monthly capacity tests

## Specification



Basic Parameters	US2000	US3000	US2500
Nominal Voltage (V)	48	48	25.6
Nominal Capacity (Wh)	2400	3552	2840
Usable Capacity (Wh)	2200	3200	2550
Dimension (mm)	442*410*89	442*420*132	442*420*132
Weight (Kg)	24	32	27.5
Discharge Voltage (V)	45 ~ 53.5	45 ~ 53.5	45~53.5
Charge Voltage (V)	52.5 ~ 53.5	52.5 ~ 53.5	28.2~28.8
Charge / Discharge Current (A)	25 (Recommend)	37 (Recommend)	56 (Continuous)
	100 (Peak@15s)	100 (Peak@15s)	111 (Peak@15s)
Communication Port	RS485, CAN	RS485 CAN	RS485 CAN
Working Temperature/°C	0~50	0~50	0~50
Shelf Temperature/ °C	-20~60	-20~60	-20~60
Humidity	5%~85%	5%~85%	5%~85%
Altitude (m)	<2000	<2000	<2000
Design life	15+ Years (25°C /77℉)	15+ Years (25°C /77℉)	15+ Years (25°C /77℉)
Cycle Life	>6000, 25°C	>6000, 25°C	>6000, 25°C
Authentication Level	UL/IEC62619/CE /UN38.3	IEC62619/CE /UN38.3	IEC62619/ RoHS/UN38.3