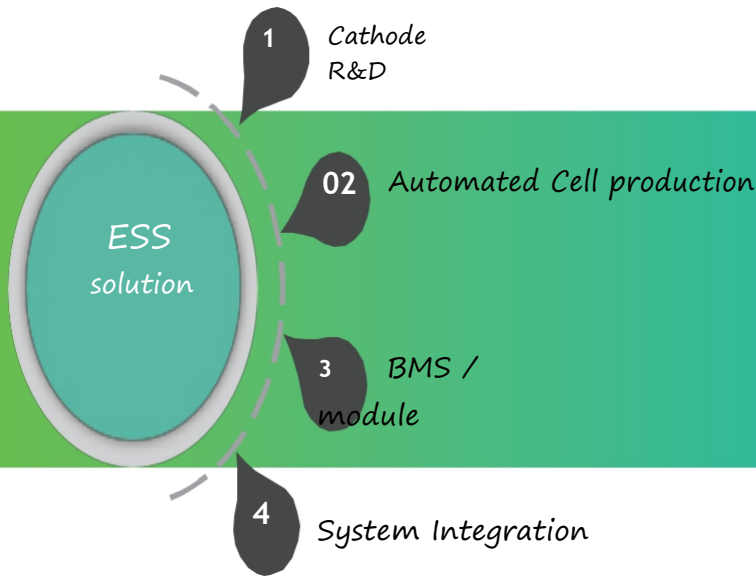




## **LOW VOLTAGE ENERGY STORAGE SYSTEM**

**-FOR SMART MICRO ENERGY**

# Vertical Industry Integration Chain



Vertically intergrated the whole lithium battery industrial chain with only FOCUS on Energy Storage with more than 2.0GWh serving 120,000+ users globally

## Prioritizing your safety

Most international safety standard was observed for the cells, module and system



## Advantages

- Compact Size for Space Saving
- Reliable Performance
- Vertical industrial Chain
- 95% DOD with more usable capacity

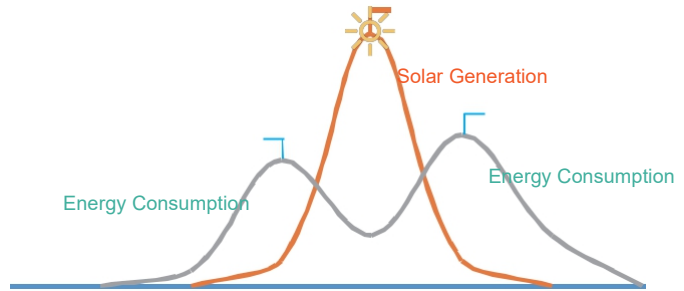


- 10+ years technical proven
- Modular design for expansion
- Superior low failure rate
- Life span for 10+ years

# Why you need battery storage system?

High-efficiency for your power distribution.

Conserve energy and **save your electricity bills**



Morning Day Evening



Electricity power occupies more than half of increasing energy consumption in this decade, DER (distributed energy resources) is crucial today particularly during the COVID-19 pandemic when the conventional grid is not reliable because of lesser manpower available.

Realize your grid **Independence**

Keep your grid available during terrible weather or extreme situation



# 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-HI-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.

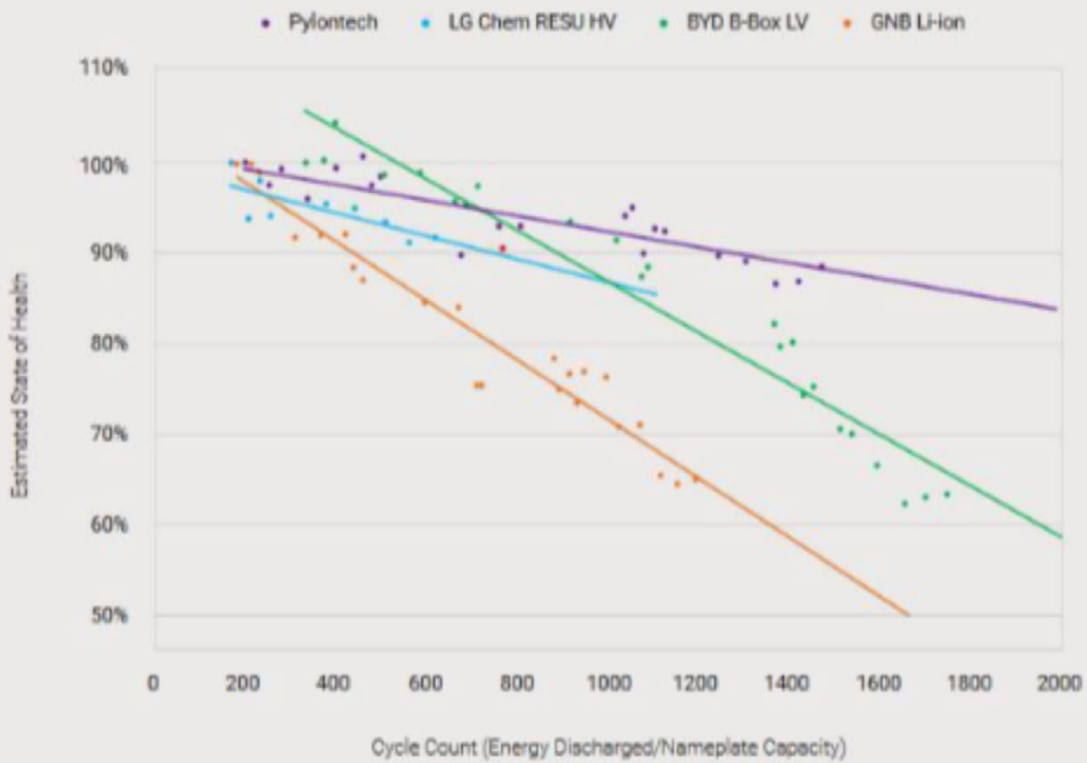


Figure 12. Capacity fade of Phase 2 battery packs based on monthly capacity tests

# Specification



Specification	Basic Parameters	UP5000
<b>Nominal</b>	Nominal Voltage(V )	48
	Nominal Capacity(Wh )	4,800
	Ussable Capacity(Wh )	4,560
<b>Physical</b>	Dimension(mm )	442*420*165
	Weight(Kg )	41
<b>Electrical</b>	Discharge Voltage(Vdc)	44.5
	Charge Voltage(Vdc)	52.5 ~ 53.5
	Charge / Discharge Current (Amps)	50(Continuous) 74-89(60sec) 90-200A (Peak@15sec)
<b>Others</b>	Communication Port	RS485,CAN
	Single string quantity(pcs)	16
	Working Temperature/°C	0 ~50 Charge
		-10 ~50 Discharge
	Shelf Temperature/°C	-20~60
	Altitude (M)	<4000
	IP rating	IP20
	Humidity (RH)	5~95 <sup>0%</sup>
	Certification	IEC62619/CE/ UN38.3
	Design life	10+ Years (25°C/77°F)
Cycle Life	>4,500 (25°C)	