

# Residential BESS US Series

## Powercube X Series



### Safety and Reliability

Ensured by by self-designed and manufactured cell, modules and BMS



### Optimal Electricity Cost

Long cycle life and superior performance



### Compact Size & Easy Installation

Module design for quick installation



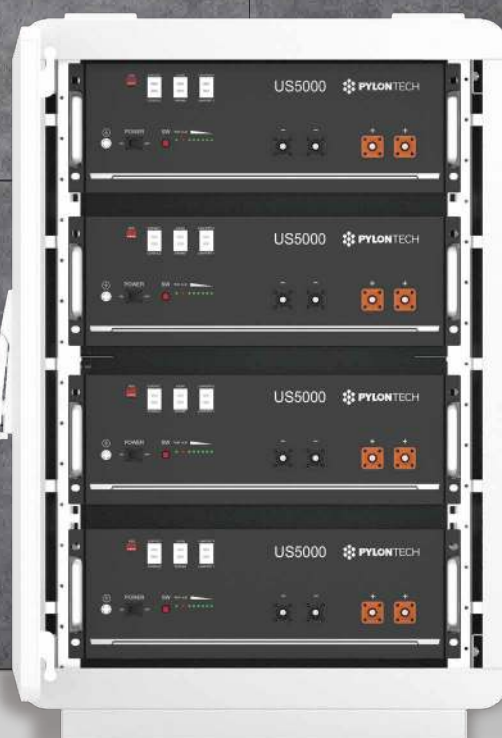
### Easy to Scale Up

Multi-groups in parallel to expand the capacity.



### Compatibility

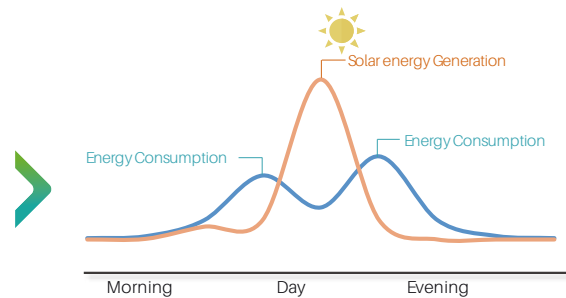
Compatible with Top inverter brands



# How to save on bill from Residential ESS?

## Self-Consumption Optimization

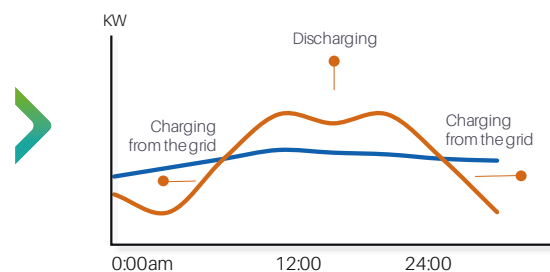
High energy demand in the morning and evening but solar energy generation is most sufficient during the Mid-Day. Battery storage system balances the feeding and demands. Realize your grid independence.



## Benefits from Peak Shaving

### House: Load Shifting

Store energy during off-peak and use energy at peak-time. Save on the electricity bills by reducing peak demand.



## VPP Revenue

VPP creates a network of renewable energy sources and battery storage systems, connected through a cloud-based technology that manages the stability of clean electricity to maximize your revenue.

Enabling a cost reduction, as well as boosting the system's efficiency



## SPECIFICATION (48V)



Model	US2000C		US3000C	US5000
Basic Parameters				
Nominal Voltage (Vdc)	48		48	48
Nominal Capacity(kWh)	2.4		3.55	4.8
Usable Capacity(kWh)	2.28		3.37	4.56
Dimension(mm)	442*410*89		442*410*132	442*420*161
Weight(kg)		22.5	32	39.7
	(Recommend)	25	37	80*
Charge/	(Max. Continuous)	25	37	100*
Discharge Current(A)	(Peak 1)	50~89@60sec	74~89@60sec	101~120@15min
	(Peak 2)	90~200@15sec	90~200@15sec	121~200@15sec
Communication Port			RS485,CAN	
Single string quantity(pcs)	16		16	16
Working Temperature/ °C	Charge	0~50		
Working Temperature/ °C	Discharge	-10~50		
Shelf Temperature/ °C			-20~60	
Short current/duration time	<4000A/2ms		<4000A/2ms	<2000A/1ms
IP rating			IP20	
Cooling type			Natural	
Humidity			5% ~ 95%(RH) No Condensation	
Altitude(M)			<4000	
Design life	15+ Years (25 °C /77 °F )		15+ Years (25 °C /77 °F )	15+ Years (25 °C /77 °F )
Cycle Life	>8,000 25 °C		>8,000 25 °C	> 8,000 25 °C
Certification	UL1642/ IEC62619 /ICE63056 /ICE61000-6-2/3 UN38.3		UL1973 /UL1642 /UL9540A/VDE2510-50 /IEC63056/IEC62619 /IEC62040/IEC62477-1 /ICE61000-6-2/UN38.3	UL1973/UL9540A IEC62619/IEC63056 /ICE61000-6-2/3 /UN38.3

## SPECIFICATION (96~864V)



Powercube X1/H1



Powercube X2/H2

Battery Model	Powercube X1/H1	Powercube X2/H2
Data Parameter		
Battery Module	H48050	H48074
Battery Module Voltage(Vdc)	48	48
Battery Module Capacity(Ah)	50	74
Battery Module Capacity(kWh)	2.4	3.55
Dimension (W*D*H mm)	442*390*100	442*390*132
Weight(kg)	24	32
Configuration (Max. in 1 battery group)	2~18	2~18
Battery System Voltage(V)	864	864
Battery System Capacity(Ah)	50	74
Battery System Capacity(kWh)	43.2	63.9
Depth of Discharge	95%	
Efficiency(@0.5C-rate)	96%	
Communication	Modbus RTU/CAN	
Short circuit rating/Duration	<3000 2ms	
IP rating	IP 20	
Operation Temperature(℃)	0~50℃	
Shelf Temperature(℃)	-20~60℃	
Humidity	5%~95%	
Design Life	15+ Years (25℃/77℉)	
Cycle Life	> 8,000 25℃	> 8,000 25℃
Multi-Group	Max. 6 systems in parallel	
Certification	IEC62619/VDE2510-50 /CE/CEC	IEC62619/VDE2510-50 /CE/CEC