

Residential BESS US Series

Powercube X Series



Safety and Reliability

Ensured 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



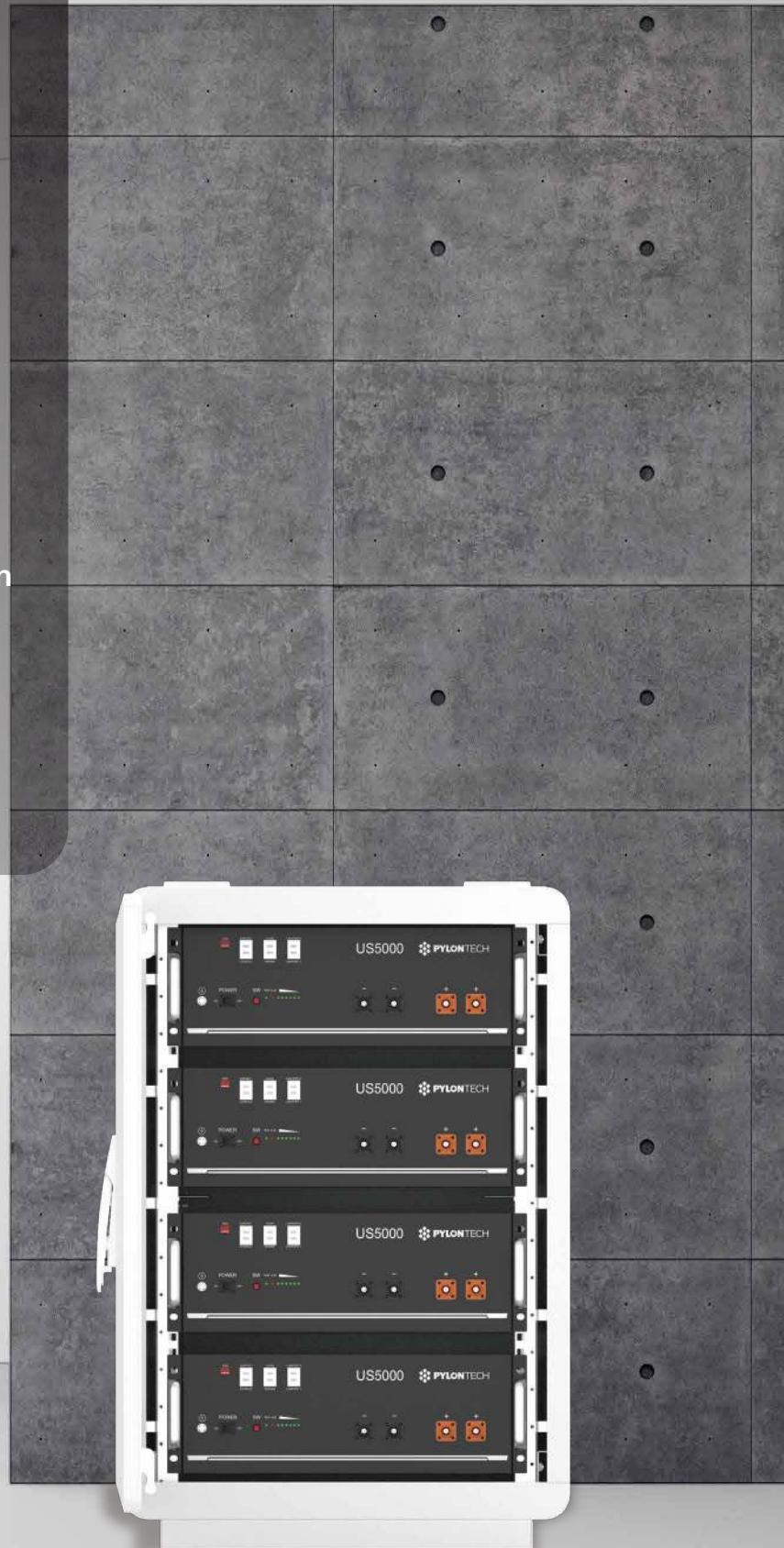
Easy to Scale Up

Multi-groups in parallel to expand the capacity.



Compatibility

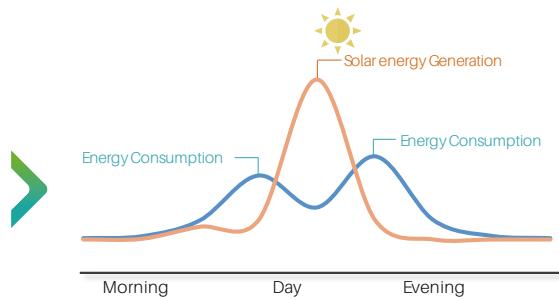
Compatible with Top inverter brands



How to save on bill from Residential ESS?

Self-Consumption Optimization

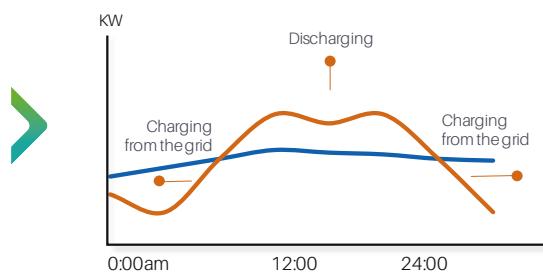
High energy demand in the morning and evening but solar energy generation is most sufficient during the Mid-Day. Battery storage system balances the feeding and demands. Realize your grid independence.



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
Charge/	(Max. Continuous)	25	37
Discharge	(Peak 1)	50~89@60sec	74~89@60sec
Current(A)	(Peak 2)	90~200@15sec	90~200@15sec
101~120@15min			
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 /IEC61000-6-2/3 UN38.3	UL1973 /UL1642 /UL9540A/VDE2510-50 /IEC63056/IEC62619 /IEC62040/IEC62477-1 /IEC61000-6-2/3 /UN38.3	UL1973/UL9540A IEC62619/IEC63056 /IEC61000-6-2/3 /UN38.3

SPECIFICATION (96~864V)

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(°C)	0~50 °C	
Shelf Temperature(°C)	-20~60 °C	
Humidity	5%~95%	
Design Life	15+ Years (25 °C/77 °F)	
Cycle Life	> 8,000 25 °C	> 8,000 25 °C
Multi-Group	Max. 6 systems in parallel	
Certification	IEC62619/VDE2510-50 /CE/CEC	IEC62619/VDE2510-50 /CE/CEC