Residential BESS

US Series

Powercube X Series

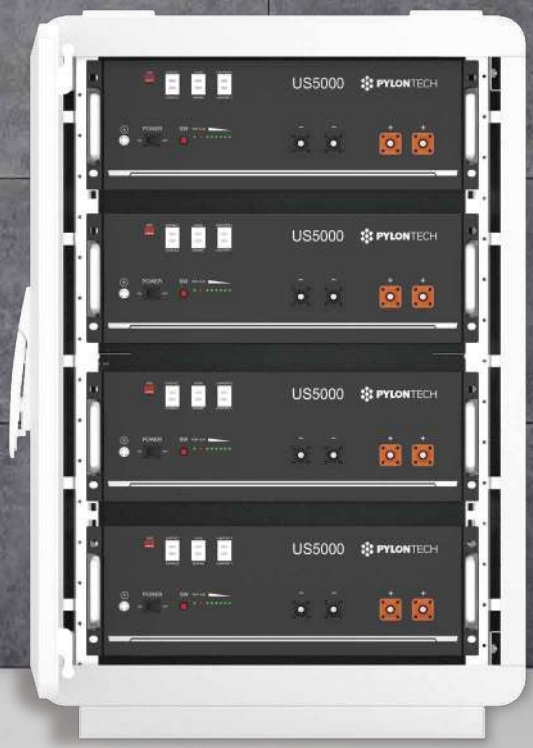
Safety and Reliablity
Ensured by by self-designed and manufactured cell, modules and BMS

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



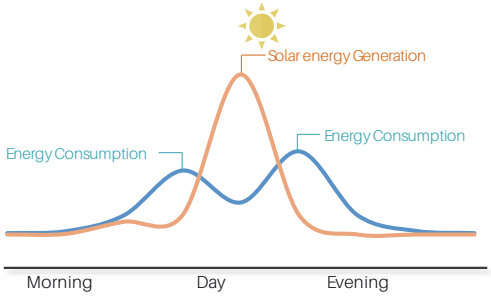
CEC

Complete Safety Certification

How to save on bill from Residential ESS?

Self-Consumption Optimization

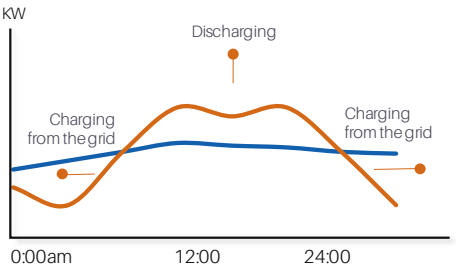
High energy demand in the morning and evening but solar energy generation is most sufficient during the Mid-Day. Battery storage system balances the feeding and demands. Realize your grid independence.



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
Charge/ Discharge Current(A)	(Recommend)		25	37	80*
	(Max. Continuous)		25	37	100*
	(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/ ℃		Charge		0~50	
Working Temperature/ ℃		Discharge		-10~50	
Shelf Temperature/ ℃				-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℃/77℉)	15+ Years (25℃/77℉)	15+ Years (25℃/77℉)
Cycle Life			>8,000 25℃	>8,000 25℃	> 8,000 25℃
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)

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