Residential BESS

US Series

Powercube X Series

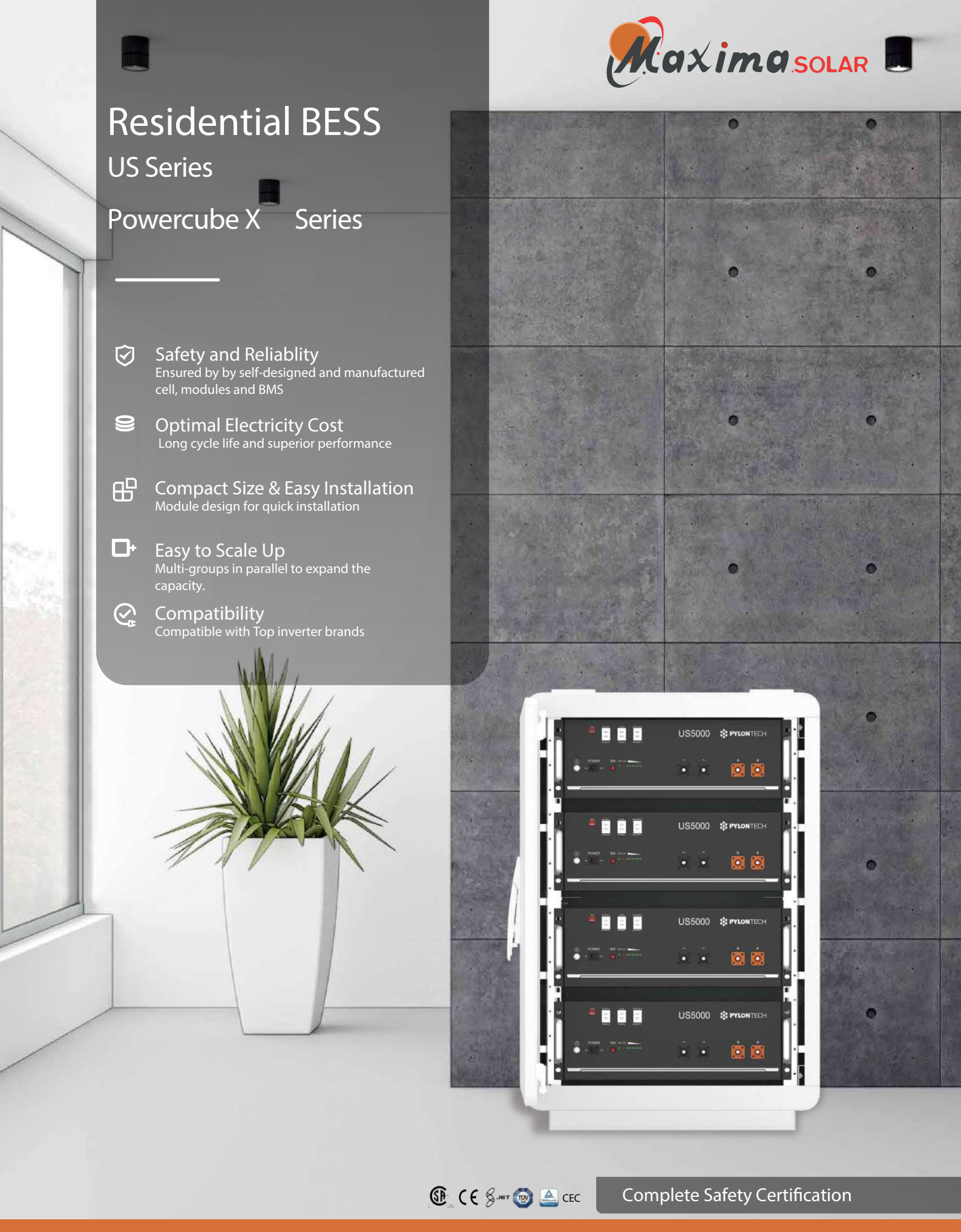
Safety and Reliablity
Ensured by by self-designed and manufactured cell, modules and BMS

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



Complete Safety Certification

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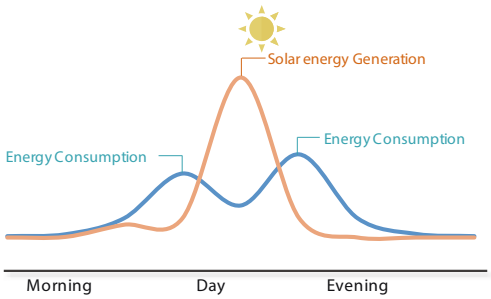
Shop 5&6, 7 States building Baniyas Square, Deira, Dubai, UAE

How to save on bill from Residential ESS?

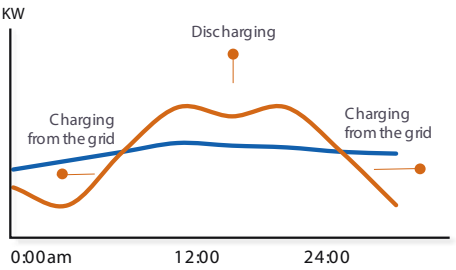
Self-Consumption Optimization

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

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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

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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