PYLONTECH Cube the force

Residential BESS

-Rack Mounted type

Safety
Multi-protection from self developed BMS

Optimal Electricity Cost
Long cycle life and superior performance

Compact Size & East Installation
Module design help for quick installation

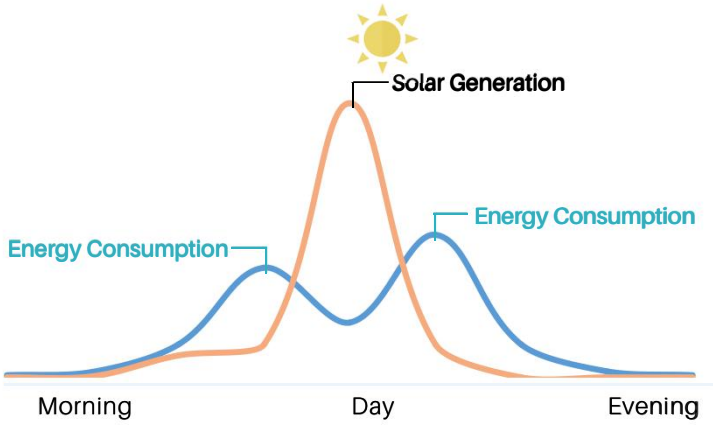
Easy to Scale Up
Be workable to be parallel based on 48V

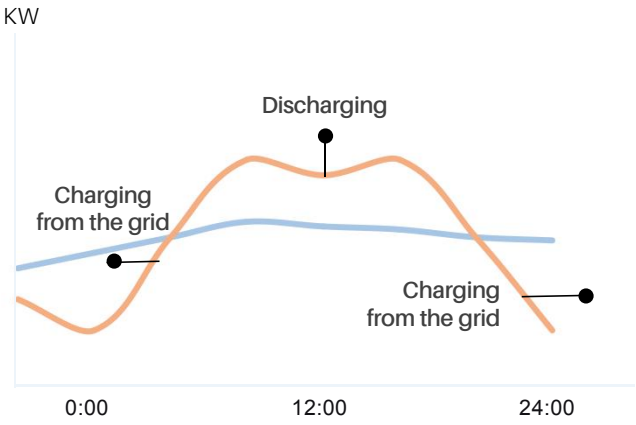
Compatibility
Compatible with Tier 1 inverter brands

How to save bill from Residential ESS?

1. Self-Consumption Optimization

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





2. Benefits from Peak Shaving

House: Load Shifting

Store the power during low-peak and use the energy at peak-time. Save the money which happens arising from peak rate.

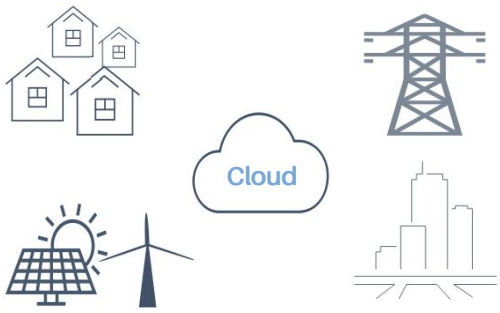
Transmission&Distribution: peak Shaving

Save on the electricity bills by reducing peak demand

3. 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)

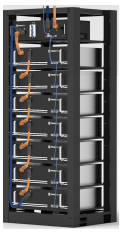
Module		US2000C	US3000C	US5000	US5000B
Basic Parameters					
Nominal Voltage (Vdc)		48	48	48	48
Nominal Capacity(Wh)		2400	3552	4800	4800
Usable Capacity(Wh)		2280	3374	4560	4560
Dimension(mm)		442*410*89	442*420*132	442*420*161	442*420*161
Weight(kg)		22.5	32	39.7	40
Charge/ Discharge Current(A)	(Recommend)	25	37	80*	80*
	(Max. Continuous)	25	37	100*	100*
	(Peak 1)	50~89@60sec	74~89@60sec	101~120@15min	101~120@15min
	(Peak 2)	90~200@15sec	90~200@15sec	121~200@15sec	121~200@15sec
Communication Port		RS485,CAN			
Single string quantity(pcs)		16	16	16	16
Working Temperature/ ℃	Charge	0~50			
Working Temperature/ ℃	Discharge	-10~50			
Shelf Temperature/ ℃		-20~60	-20~60	-20~60	-20~60
Short current/duration time		<4000A/2ms	<4000A/2ms	<2000A/1ms	<2000A/1ms
IP rating of enclosure		IP20			
Cooling type		Natural			
Humidity		5% ~ 95%(RH) No Condensation			
Altitude(M)		<4000			
Design life		15+ Years (25℃/77°F)	15+ Years (25℃/77°F)	15+ Years (25℃/77°F)	15+ Years (25℃/77°F)
Cycle Life		>6,000 25℃	>6,000 25℃	> 6,000 25℃	>6,000 25℃
Authentication Level		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	UL1973/UL9540A IEC62619/IEC63056 /ICE61000-6-2/3 /UN38.3
Remark				without breaker	with breaker

*: The recommended and max. continuous operation current is for a battery cell temperature within 10~40°C to consider, out of such temp. range will cause a derating on operation current.

SPECIFICATION (48V)

Module		UP5000
Basic Parameters		
Nominal Voltage (Vdc)		48
Nominal Capacity(Wh)		4800
Usable Capacity(Wh)		4560
Dimension(mm)		442*420*165
Weight(kg)		40
Charge/ Discharge Current(A)	(Recommend)	50
	(Peak 1)	74~89@60sec
	(Peak 2)	90~ 200@15sec
Communication Port		RS485,CAN
Single string quantity(pcs)		16
Working Temperature/ ℃	Charge	0~50
Working Temperature/ ℃	Discharge	-10~50
Shelf Temperature/ ℃		-20~60
Short current/duration time		<4000A/2ms
IP rating of enclosure		IP20
Cooling type		Natural
Humidity		5% ~ 95%(RH) No Condensation
Altitude(M)		<4000
Design life		10+ Years (25℃/77˚F)
Cycle Life		> 6,000 25℃
Authentication Level		IEC62619/ICE63056/ICE61000-6-2 / ICE61000-6-3/UN38.3

SPECIFICATION (96~336 V)



Module	Powercube X1	Powercube X2
Data Parameter		
Battery Module	H48050	H48074
Nominal Voltage(V)	48	48
Battery Capacity(Ah)	50	74
Energy (kWh)	2.4	3.55
Voltage range(V)	45~54	45~54
Dimension (W*D*H mm)	442*390*100	442*390*132
Weight(kg)	24	32
Main Controller	SC0500-100S	SC0500-100S
Weight(kg)	5	5
Dimension (W*D*H mm)	442*390*176	442*390*176
Battery System Capacity(kWh)	16.8	24.9
Battery system Voltage(V)	336	336
Battery System Voltage Range (V)	315~378	315~378
Efficiency(@0.5C-rate)	96%	96%
Depth of Discharge	95%	95%
Dimension (W*D*H mm)	600*505*1300	600*505*1380
Weight(kg)	275	330
Design Life	15+Years	15+Years
Operation Temperature (℃)	0~50	0~50
Humidity	5%~95%	5%~95%
Altitude	< 2000	< 2000
Battery Module Qty.(Optional)	2~7	2~7
Authentication level	IEC62619/VDE2510-50 UL1973/CE/CEC	IEC62619/VDE2510-50 UL1973/CE/CEC

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