



Residential BESS

Rack Mounted type-LV



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

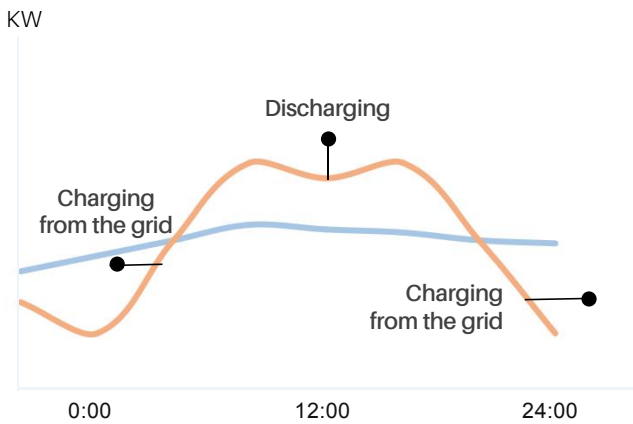
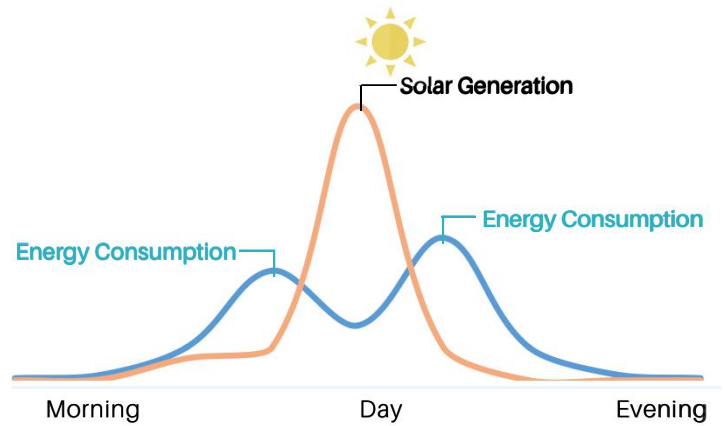
Compatible with Tier 1 inverter brands

PYLON

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.

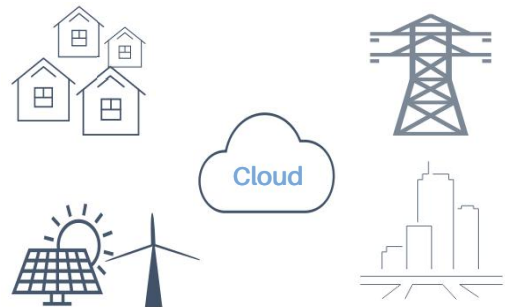
Transmission&Distribution: peak Shaving

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-B

Basic Parameters

Nominal Voltage (Vdc)	48	48	48	
Nominal Capacity(Wh)	2400	3552	4800	
Usable Capacity(Wh)	2280	3374	4560	
Dimension(mm)	442*410*89	442*420*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/ °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 of enclosure		IP20		
Cooling type		Natural		
Humidity		5% ~ 95%(RH) No Condensation		
Altitude(M)		<4000		
Design life		15+ Years (25°C/77°F)		
Cycle Life		>6,000 25°C		
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	

Remark

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.

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