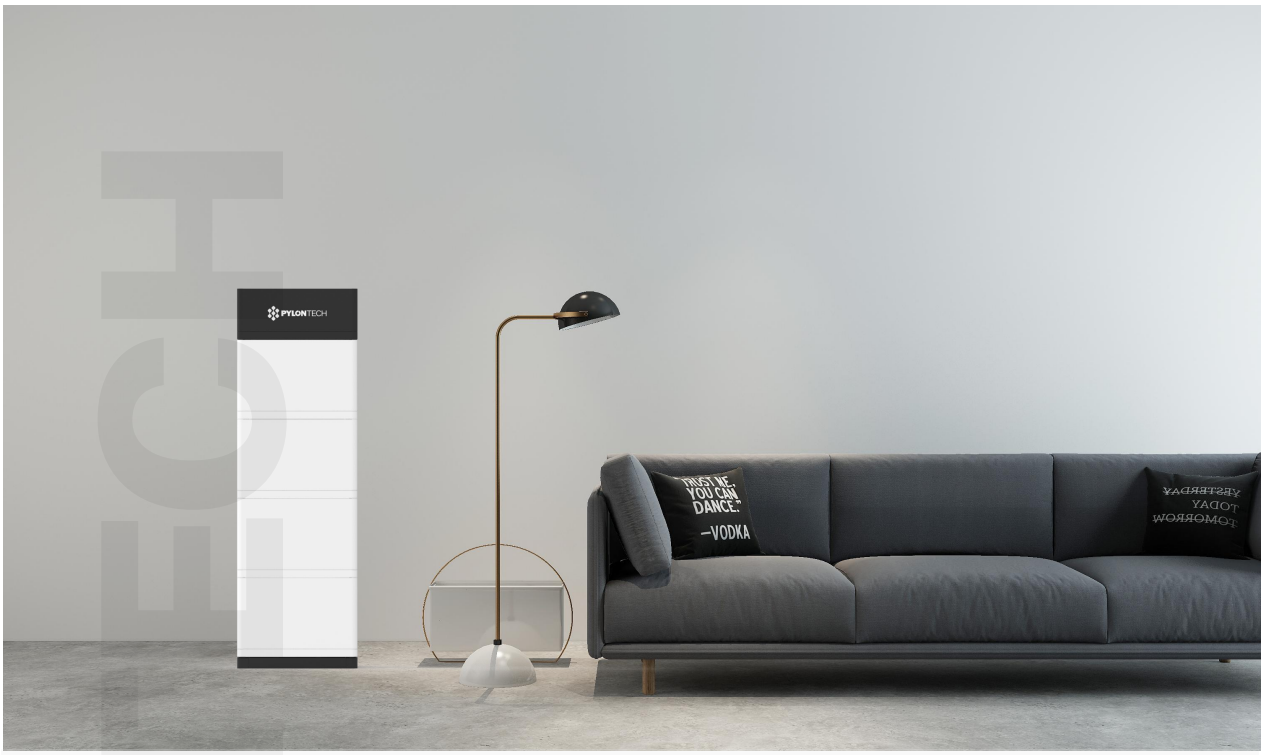
PYLONTECH Cube the force



Residential BESS

Force series

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

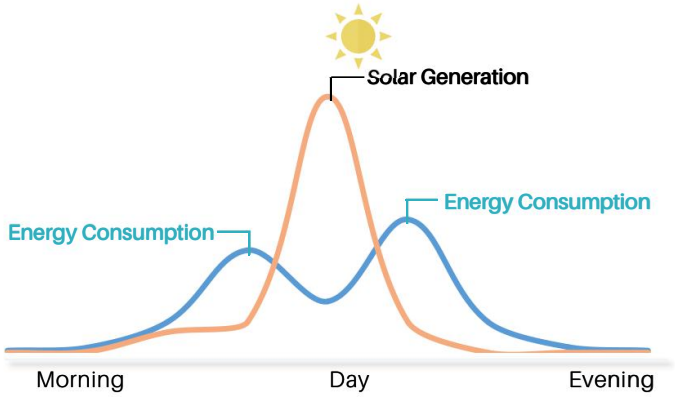
Easy to Scale Up
Be workable to be parallel based on 48V

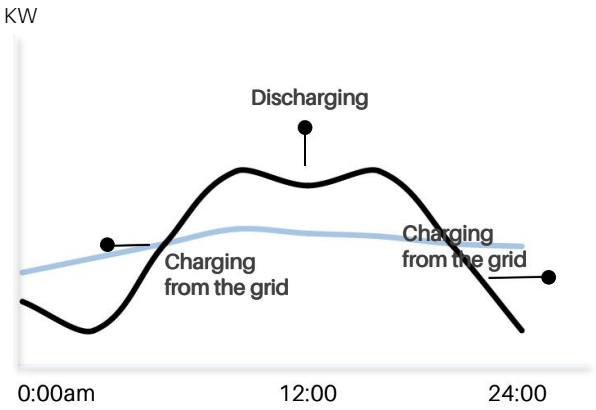
Compatibility
Compatible with Tier 1 inverter brands

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.

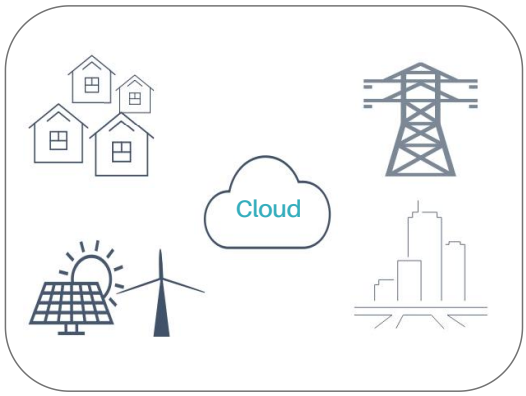
Transmission&Distribution: peak Shaving

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 (Force-L1)



Module		2	3	4	5	6	7
Basic Parameters							
Battery System Capacity(kWh)		7.1	10.65	14.21	17.76	21.31	24.86
Voltage Range(Vdc)		44.5~54					
Dimension(W*D*H mm)		600*380*530	600*380*700	600*380*870	600*380*1040	600*380*1210	600*380*1380
Weight(kg)		84	119	154	189	224	259
Depth of Discharge		95%					
Charge/ Discharge Current(A)	(Recommend)	30	45	60	75	90	100
	(Max)	75	100	100	100	100	100
	(Peak @15s)	105	105	105	105	105	105
Communication Port		RS485 , CAN					
Protection Class		IP55					
Working Temperature/ ℃		0~50					
Shelf Temperature/ ℃		-20~60					
Humidity		5%~95%(w/o condensing)					
Altitude		< 2000					
Design Life		15+ Years (25℃/°F)					
Cycle Life		>6000, 25℃					
Authentication level		VDE2510-50/IEC62619/IEC62477/IEC62040/CE/UN38.3					

SPECIFICATION (Force-L2)



Module		2	3	4
Basic Parameters				
Battery System Capacity(kWh)		7.1	10.65	14.21
Voltage Range(Vdc)			44.5~54	
Dimension(W*D*H mm)		450*300*820	450*300*1120	450*300*1410
Weight(kg)		83	119	14.21
Depth of Discharge			95%	
Charge/ Discharge Current(A)	(Recommend)	30	45	60
	(Max)	75	100	100
	(Peak @15s)	105	105	105
Communication Port			RS485/CAN	
Protection Class			IP55	
Working Temperature/ ℃			0~50	
Shelf Temperature/ ℃			-20~60	
Humidity			5%~95% (w/o condensing)	
Altitude			< 2000	
Design Life			15+ Years (25℃/℉)	
Cycle Life			>6000, 25℃	
Authentication level			VDE2510-50/IEC62619/IEC62477/IEC62040/CE/UN38.3	

SPECIFICATION (96~336 V)



Basic Parameters		Force-H1	Force-H2
Battery Module		FH48074	FH9637M
Battery Module Voltage(Vdc)		48	96
Battery Module Capacity(Ah)		74	37
Battery Module Qty. (Optional)		3~7 pcs	2~4 pcs
Battery System Capacity(kWh)		24.86	14.21
Battery System Voltage (V)		336	384
Dimension (W*D*H mm)		600*380*1380	450*296*1415
Weight(kg)		259	155
Depth of Discharge		95%	
Charge/ Discharge Current(A)	(Recommend)	37	18.5
	(Max.)	40	
Communication		RS485, CAN	
Protection Class		IP55	
Working Temperature/ ℃		0~50	
Shelf Temperature/ ℃		-20~60	
Humidity		5%~95%(w/o condensing)	
Altitude		< 2000	
Design Life		15+ Years (25℃/°F)	
Cycle Life		>6000, 25℃	
Authentication level		UL1973/VDE2510-50 /IEC62619/IEC62477/ IEC62040/CE/UN38.3	VDE2510-50/IEC62619 /IEC62477/ IEC62040 /CE/UN38.3

Pylon Technologies Co., Ltd
No. 73, Lane 887, Zu Chongzhi Road,
Zhangjiang Hi-Tech Park
Pudong,hanghai
201203, China

www.pylontech.com
sales@pylontech.com.cn

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