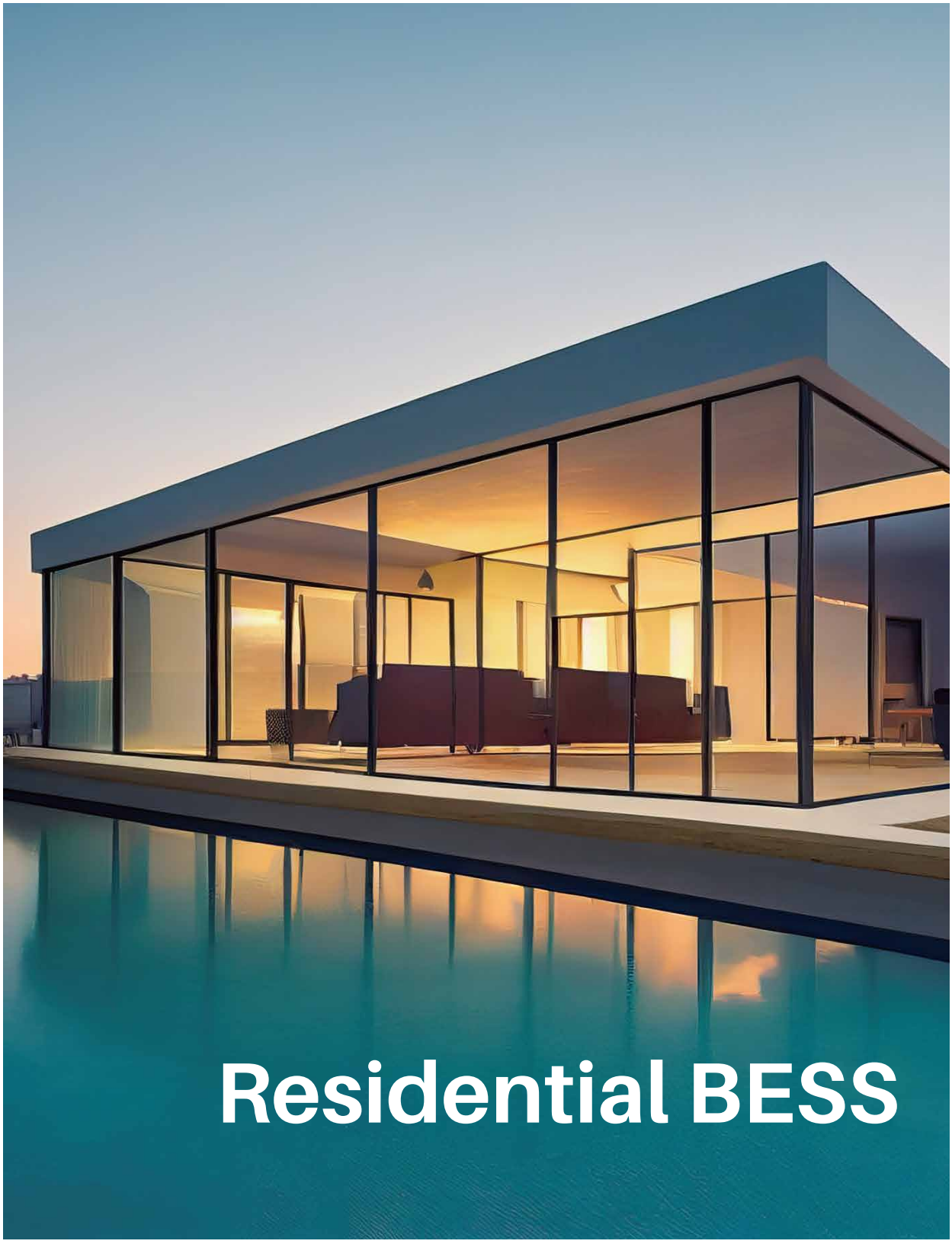


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Residential BESS

US Series

Powercube X Series

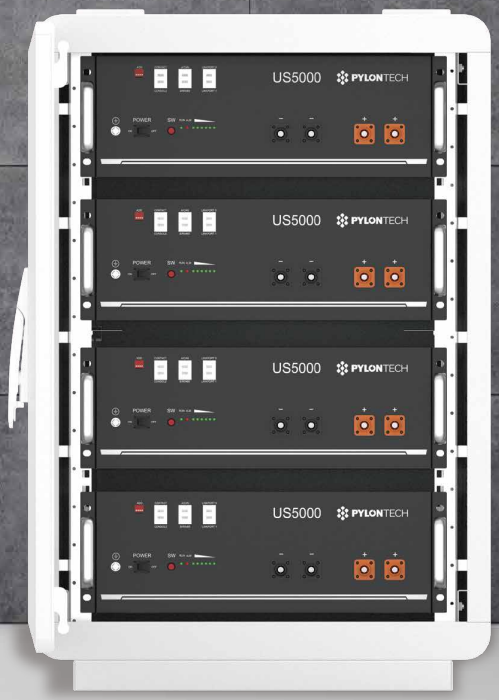
Safety and Reliablity
Ensured by by self-designed and manufactured cell, modules and BMS

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

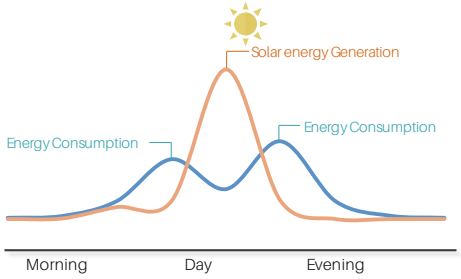


Complete Safety Certification

How to save on bill from Residential ESS?

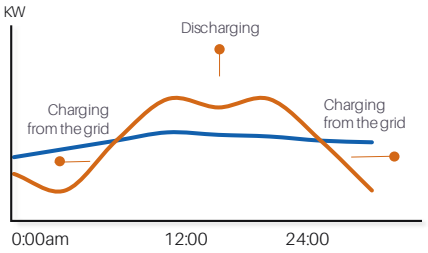
Self-Consumption Optimization

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


Residential BESS
PELIO
Smaller Footprint
Higher energy density benefit from latest LFP technology
Expandable
Modular design
Maximum 20*5.12kwh
High Power Efficiency
Continuous power 5.12kw
Peak power 6.14kw@15min
Peak power10.24kw@15sec
Monitor 24/7
Real-time monitoring of battery charging and discharging, online system updates and maintenance

SPECIFICATION (Pelio-L-5.12/48V)

Basic Parameters	Pelio-L-5.12
Nominal Voltage (V)	51.2
Nominal Capacity (kWh)	5.12
Usable Capacity (kWh)	4.864
Dimension (W*D*H mm)	578*165*395
Weight (Kg)	45
Discharge Voltage (V)	44.8 ~ 56.8
Charge Voltage (V)	56.0 ~ 56.8
Recommended Charge/Discharge Current (A)	80
Max. Charge/Discharge Current (A)	100~120@15min
Peak Charge/Discharge Current (A)	120~200@15sec
Communication Port	RS485, CAN
Operation&Connection	WIFI*(2.4G), USB 2.0
Depth of discharge (%)	95
Configuration (max. in 1 battery group)	20pcs
Working Temperature	0℃~50℃ Charge -10℃~50℃ Discharge
Shelf Temperature	0℃~40℃(6 months) -20℃~45℃(3 months)
Short current/duration time	<4000A/2ms
Cooling type	Natural
Protective class	I
IP rating	IP65
Humidity	5% ~ 95%(RH) No Condensation
Altitude(m)	<4000
Design life	15+ Years (25℃/77℉)
Cycle Life	>8,000 25℃
Certification	IEC62619, IEC63056, IEC62040, IEC62477-1, UL1973, U1642,UL9540A, VDE2510-50, IEC61000-6-2, IEC61000-6-3, UN38.3

Residential BESS

-Force L Series
-Force H series

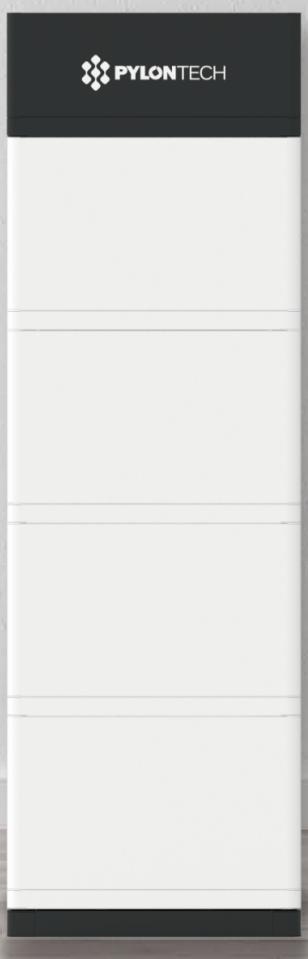
Safety and Reliablity
Ensured by own designed and manufactured cell, modules and BMS

Optimal Electricity Cost
Long cycle life and superior performance

Strong Scalability
Maximum capacity of 215.04 kWh with 6 groups in parallel

Flexible Mounting
Plug&Play, no additional wiring connection

Compatibility
Compatible with Top inverter brands





SPECIFICATION (Force-L1/48V)



2 3 4 5 6 7

Basic Parameters							
Battery Module		FL48074					
Battery System Capacity(kWh)		7.1	10.65	14.21	17.76	21.31	24.86
Voltage Range(Vdc)		43.5~54					
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)		86.5	123	159.5	196	232.5	269
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
Multi-group		Max. 6 systems in parrallel					
Communication Port		RS485, CAN					
IP rating		IP55					
Working Temperature/ ℃		0~50					
Shelf Temperature/ ℃		-20~60					
Humidity		5%~95%(w/o condensing)					
Altitude		＜2000					
Design Life		15+ Years (25 ℃ / 77°F)					
Cycle Life		＞8,000, 25 ℃					
Certification		VDE2510-50/IEC62619/IEC62477/CE/UN38.3					

SPECIFICATION (Force-L2/48V)





	2	3	4
Basic Parameters			
Battery Module		FL4874M	
Battery System Capacity(kWh)	7.1	10.65	14.21
Voltage Range(Vdc)		43.5~54	
Dimension(W*D*H mm)	450*296*822	450*296*1118	450*296*1414
Weight(kg)	82	117.5	153
Depth of Discharge		95%	
Charge/ Discharge Current(A) (Recommend)	30	45	60
Charge/ Discharge Current(A) (Max)	75	100	100
Charge/ Discharge Current(A) (Peak @15s)	105	105	105
Multi-group		Max. 6 systems in parrallel	
Communication Port		RS485/CAN	
IP rating		IP55	
Working Temperature/ ℃		0~50	
Shelf Temperature/ ℃		-20~60	
Humidity		5%~95% (w/o condensing)	
Altitude		＜2000	
Design Life		15+ Years (25℃/ 77°F)	
Cycle Life		＞8,000, 25℃	
Certification		VDE2510-50/IEC62619/IEC62477-1/CEC/UN38.3	

SPECIFICATION (Force H1/ 96~336 V)



Basic Parameters							
Battery Module				FH48074			
Battery Module Voltage(Vdc)				48			
Battery Module Capacity(Ah)				74			
Battery Module Qty. (Optional)		2	3	4	5	6	7
Battery System Voltage (V)		96	144	192	240	288	336
Battery System Capacity(Ah)				74			
Battery System Capacity(kWh)		7.1	10.65	14.21	17.76	21.31	24.86
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)		86	122	158	194	230	266
Depth of Discharge				95%			
Charge/ Discharge Current(A)	(Recommend)			37			
	(Max.)			40			
Multi-group				Max. 6 systems in parallel			
Communication				CANBUS/Modbus RTU			
IP rating				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				>8,000, 25℃			
Certification				UL1973/VDE2510-50/IEC62619/IEC62477/ IEC62040-1/CE/UN38.3			

SPECIFICATION (Force H2/192~384 V)



Basic Parameters					
Battery Module		FH9637M			
Battery Module Voltage(Vdc)		96			
Battery Module Capacity(Ah)		37			
Battery Module Qty. (Optional)		2	3	4	5
Battery System Voltage (V)		192	288	384	480
Battery System Capacity(Ah)		37			
Battery System Capacity(kWh)		7.1	10.65	14.21	17.75
Dimension (W*D*H mm)		450*296*822	450*296*1118	450*296*1414	450*296*1710
Weight(kg)		82	117.5	152	188.5
Depth of Discharge		95%			
Charge/ Discharge Current(A)	(Recommend)	18.5			
	(Max.)	40			
Multi-group		Max. 6 systems in parallel			
Communication		CANBUS/Modbus RTU			
IP rating		IP55			
Working Temperature/ ℃		0~50			
Shelf Temperature/ ℃		-20~60			
Humidity		5%~95%(w/o condensing)			
Altitude		<2000			
Design Life		15+ Years (25℃/77℉)			
Cycle Life		>8,000, 25℃			
Certification		VDE-AR-E 2510-50/ IEC62619/IEC63056/IEC62040-1/CEC/CE			

SPECIFICATION (Force H3/204.8~716.8 V)



2 3 4 5 6 7

Basic Parameters						
Battery Module	FH10050					
Battery Module Voltage(Vdc)	102.4					
Battery Module Capacity(Ah)	50					
Battery Module Qty. (Optional)	2	3	4	5	6	7
Battery System Voltage (V)	204.8	307.2	409.6	512	614.4	716.8
Battery System Capacity(Ah)	50					
Battery System Capacity(kWh)	10.2	15.4	20.5	25.6	30.7	35.8
Dimension (W*D*H mm)	540*350*530	540*350*700	540*350*870	540*350*1040	540*350*1210	540*350*1380
Weight(kg)	92	131	170	209	248	287
Depth of Discharge	95%					
Charge/ Discharge Current(A) (Recommend)	50					
Charge/ Discharge Current(A) (Max.)	52					
Multi-group	Max. 6 systems in parallel					
Communication	CANBUS/Modbus RTU					
IP rating	IP55					
Working Temperature/ ℃	-10~50					
Shelf Temperature/ ℃	-20~60					
Humidity	5%~95%(w/o condensing)					
Altitude	<4000					
Design Life	15+ Years (25℃/77℉)					
Cycle Life	>8,000, 25℃					
Certification	UL9540A/UL1973/IEC62619/IEC63056/IEC62040-1/VDE-AR-E 2510-50/IEC62477-1/UN38.3					

PYLONTECH

A Dedicated BESS (Battery Energy Storage System) Provider

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