



**LOW VOLTAGE ENERGY STORAGE SYSTEM
-FOR RESIDENTIAL AND SME**

Pylon Technologies Co., Ltd.

As the leading vertically integrated manufacturer of lithium iron phosphate battery systems, Pylontech has provided various battery solutions for nearly all kinds of ESS applications.

Thanks to our self-developed core technology in cells/BMS/system design, Pylontech has delivered more than 2.0GWH batteries serving 120,000+ users.



Vertical industry integration chain



Advantage

- Developed with our own LFP (lithium iron phosphate) cell to ensure the highest safety
- Self-designed BMS protects the cell in all angles such as abnormal temperature, current, voltage, SoC, SoH
- Vertical industry integration ensures more than 6000 cycles with 95% DoD
- Modular design gives the end customers the power of choice of capacity
- Compatible with most of the available Hybrid inverters
- Simple buckle fixing minimize the installation time and cost
- Backward compatibility with existing US series product
- Pre-charge function to protect ESS system from surge current



Specification



Basic Parameters	US2000C	US3000C	Phantom-S
Nominal Voltage (V)	48	48	48
Nominal Capacity (Wh)	2400	3552	2400
Usable Capacity (Wh)	2280	3374.4	2200
Dimension (mm)	442*410*89	442*420*132	440*440*88.5
Weight (Kg)	24	32	24
Discharge Voltage (V)	44.5 ~ 53.5	44.5 ~ 53.5	44.5 ~ 53.5
Charge Voltage (V)	52.5 ~ 53.5	52.5~53.5	52.5~53.5
Charge / Discharge Current (A)	25(Recommend)	37 (Recommend)	25(Recommend)
	50 (Max)	74 (Max)	50 (Max)
	90 (Peak@15s)	90 (Peak@15s)	100 (Peak@15s)
Communication Port	RS485, CAN	RS485, CAN	RS485, CAN
Single string quantity(pcs)	16	16	8
Working Temperature/°C	0~50	0~50	0~50
Shelf Temperature/°C	-20~60	-20~60	-20~60
Humidity	5%~95%	5%~95%	5%~95%
Altitude (m)	<2000	<2000	<2000
Design life	15 ⁺ Years (25°C/77°F)	15 ⁺ Years (25°C/77°F)	15 ⁺ Years (25°C/77°F)
Cycle Life	>6000, 25 C	>6000, 25 C	>6000, 25 C
Authentication Level	IEC62619/CE /UN38.3	VDE2510-50/IEC62619/UL1973 UL9540A/CE/UN38.3	IEC62619/CE /UN38.3
Feature	Pre-Charge Dual-active protection Flexible current steps Dry contact wake up	Pre-Charge Dual-active protection Flexible current steps Dry contact wake up	

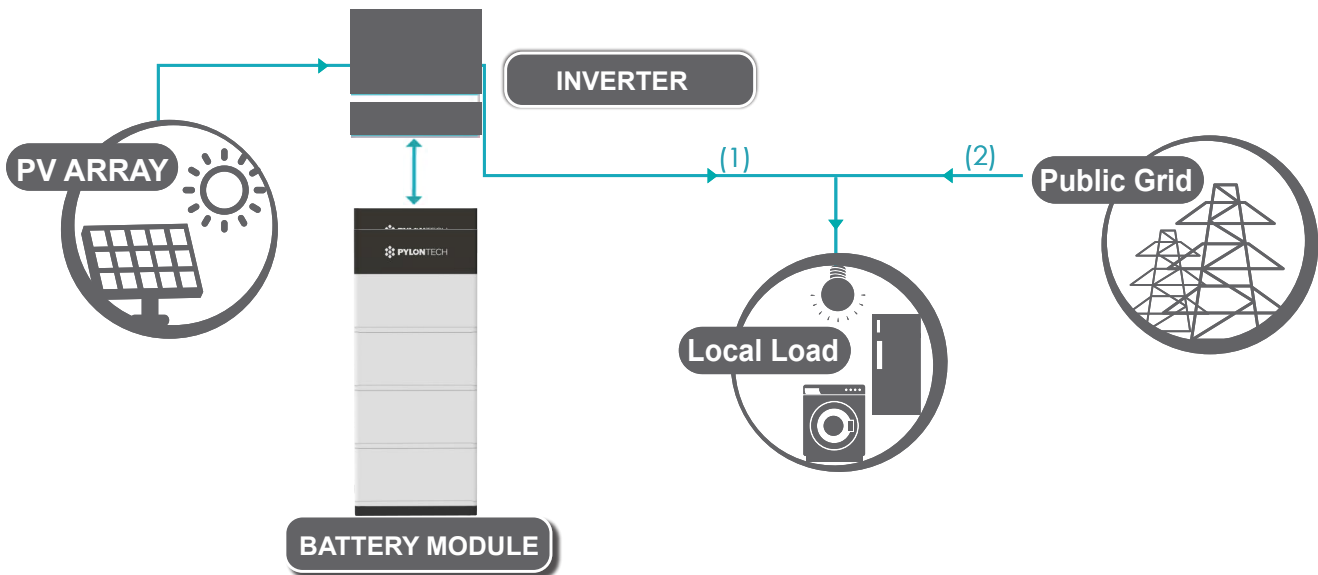
PYLONTECH FORCE SERIES

Pylontech Force L1 is the latest version of HESS (home energy storage system), inherit with our modular design concept, combined with easy installation, simple connectors and outdoor compatibility, the furniture type of equipment is your ideal place to hold your valuable force - the electricity.

Advantages

1. Modular design gives highest flexibility
2. LFP cell inside enable longest life and highest safety
3. Quick connector to save installation time
4. Furniture like design suits both indoor and outdoor installation
5. Proven BMS with widest compatibilities with inverters

Solution of ESS



Technical Specification

FORCE L1



Battery Module	2	3	4	5	6	7
Battery System Capacity (kWh)	7.10	10.65	14.21	17.76	21.31	24.86
Voltage Range (V)	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	90%					
Charge/Discharge (Recommend)	30	45	60	75	90	100
Current(A) (Continuous)	75	100	100	100	100	100
(Peak@15s)	105	105	105	105	105	105
Communication	CAN,RS485					
Protection Class	IP55					
Working Temperature(℃)	0~50					
Storage Temperature(℃)	-20~60					
Humidity	5%-95%					
Altitude (M)	<2000					
Design Life	15 ⁺ Years (25℃/°F)					
Cycle Life	>6000, 25℃					
Authentication Level	VDE/IEC62619/CE/UN38.3					

Technical Specification

FORCE L2



Battery Module	2	3	4
Battery System Capacity (kWh)	7.10	10.65	14.21
Voltage Range (V)	44.5~54		
Dimension (W*D*H mm)	450*300*820	450*300*1120	450*300*1410
Weight (kg)	83	119	155
Depth of Discharge	90%		
Charge/Discharge (Recommend)	30	45	60
Current(A) (Continuous)	75	100	100
(Peak@15s)	105	105	105
Communication	CAN,RS485		
Protection Class	IP55		
Working Temperature(℃)	0~50		
Storage Temperature(℃)	-20~60		
Humidity	5%-95%		
Altitude (M)	<2000		
Design Life	15 ⁺ Years (25℃/°F)		
Cycle Life	>6000, 25℃		
Authentication Level	VDE/IEC62619/CE/UN38.3		

Cube the Force |  **PYLONTECH**



Residential BESS

US5000



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

SPECIFICATION



Module

US5000

Basic Parameters

Nominal Voltage (Vdc)		48
Nominal Capacity(Wh)		4800
Depth of discharge (%)		95
Usable Capacity(Wh)		4560
Dimension(mm)		442*420*162
Weight (Kg)		40
Discharge Voltage (V)		44.5 ~ 53.5
Charge Voltage (V)		52.5 ~ 53.5
Charge/Discharge Current (A)	Recommend	50
Charge/Discharge Current(A)	Max.	100
Charge/Discharge Current (A) 1	Peak	100~120@15min
Charge/Discharge Current (A) 2	Peak	121~200@15sec
Communication		RS485, CAN
Configuration (max. in 1 battery group)		16pcs
Working Temperature	Charge	0°C ~55°C
Working Temperature	Discharge	-10°C ~55°C
Shelf Temperature		-20°C ~60°C
Short current/duration time		<4000A/2ms
Cooling type		Natural
Protective class		I
IP rating of enclosure		IP20
Humidity		5% ~ 95%(RH) No Condensation
Altitude(M)		<4000
Certification		TÜV / CE / UN38.3/UL
Design life		15+ Years (25°C/77°F)
Cycle Life		>6,000 25°C
Reference to standards)		IEC62619, IEC63056, IEC61000-6-2,] ¹ IEC61000-6-3, UN38.3, UL1973, UKCA, IEC62040-1, CEC