



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 angels 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	U\$2000C	U\$3000C	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	
	25(Recommend)	37 (Recommend)	25(Recommend)	
Charge / Discharge Current	50 (Max@60s)	74 (Max@60s)	50 (Max@60s)	
(A)	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/℃	0~50	0~50	0~50	
Shelf Temperature/℃	-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 $(25^{\circ}C/77^{\circ}F)$	
Cycle Life	>6000, 25 °C	>6000, 25 °C	>6000, 25℃	
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		

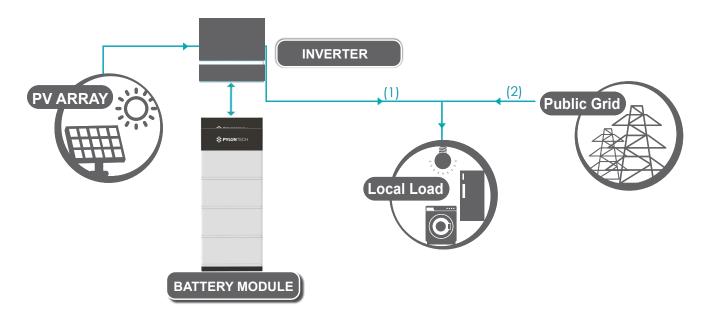
PYLONTECH FORCE SERIES

Pylontech Force L1 is the latest version of HESS (home energy storage system), inherit with our modular design concept, combined win 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 compatiblities with inverters

Solution of ESS



Technical Specification

FORCE L1

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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	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 Current(A)	(Recommend) (Continuous) (Peak@15s)	30 75 105	45 100 105	60 100 105	75 100 105	90 100 105	100 100 105
Communication				CAN,	RS485		
Protection Class				IPS	55		
Working Temperatu	re(℃)			0~	50		
Storage Temperatu	re(°C)			-20 ⁻	~60		
Humidity		5%-95%					
Altitude (M)		<2000					
Design Life		15 ⁺ Years (25°C/°F)					
Cycle Life		>6000, 25°C					
Authentication Leve	el	VDE/IEC62619/CE/UN38.3					

Technical Specification

FORCE L2

		*PYLONTECH	\$PTLONTECH		
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 Current(A)	(Recommend) (Continuous) (Peak@15s)	30 75 105	45 100 105	60 100 105	
Communication			CAN,RS485		
Protection Class			IP55		
Working Temperature (°C)			0~50		
Storage Temperature (°C)			-20~60		
Humidity		5%-95%			
Altitude (M)		<2000			
Design Life		15 ⁺ Years (25°C/°F)			
Cycle Life		>6000, 25°C			
Authentication Lev	uthentication Level VDE/IEC62619/CE/UN38.3				

