PYLONTECH

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

Material Cell Battery Module Battery Module

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 90% 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

Management Service UN38.3

Specification

Basic Parameters	US2000	Phantom-S	US3000
Nominal Voltage（V）	48	48	48
Nominal Capacity (Wh)	2400	2400	3552
Usable Capacity (Wh)	2200	2200	3200
Dimension（mm）	442*410*89	440*440*88.5	442*420*132
Weight（Kg）	24	24	32
Discharge Voltage（V）	45 ~ 53.5	45 ~ 53.5	45~53.5
Charge Voltage（V）	52.5 ~ 53.5	52.5~53.5	52.5~53.5
Charge / Discharge Current（A）	25(Recommend)	25(Recommend)	37 (Recommend)
	50 (Max)	50 (Max)	74 (Max)
	100（Peak@15s）	100（Peak@15s）	100 (Peak@15s)
Communication Port	RS485，CAN	RS485，CAN	RS485，CAN
Single string quantity(pcs)	8	8	8
Working Temperature/℃	-20~60	-20~60	-20~60
Shelf Temperature/℃	-20~60	-20~60	-20~60
Humidity	5%~85%	5%~85%	5%~85%
Altitude (m)	< 4000	< 4000	< 4000
Design life	15+ Years（25℃/77℉）	15+ Years（25℃/77℉）	15+ Years（25℃/77℉）
Cycle Life	>6000, 25℃	>6000, 25℃	>6000, 25℃
Authentication Level	UL/IEC62619/CE /UN38.3	IEC62619/CE /UN38.3	IEC62619/CE /UN38.3

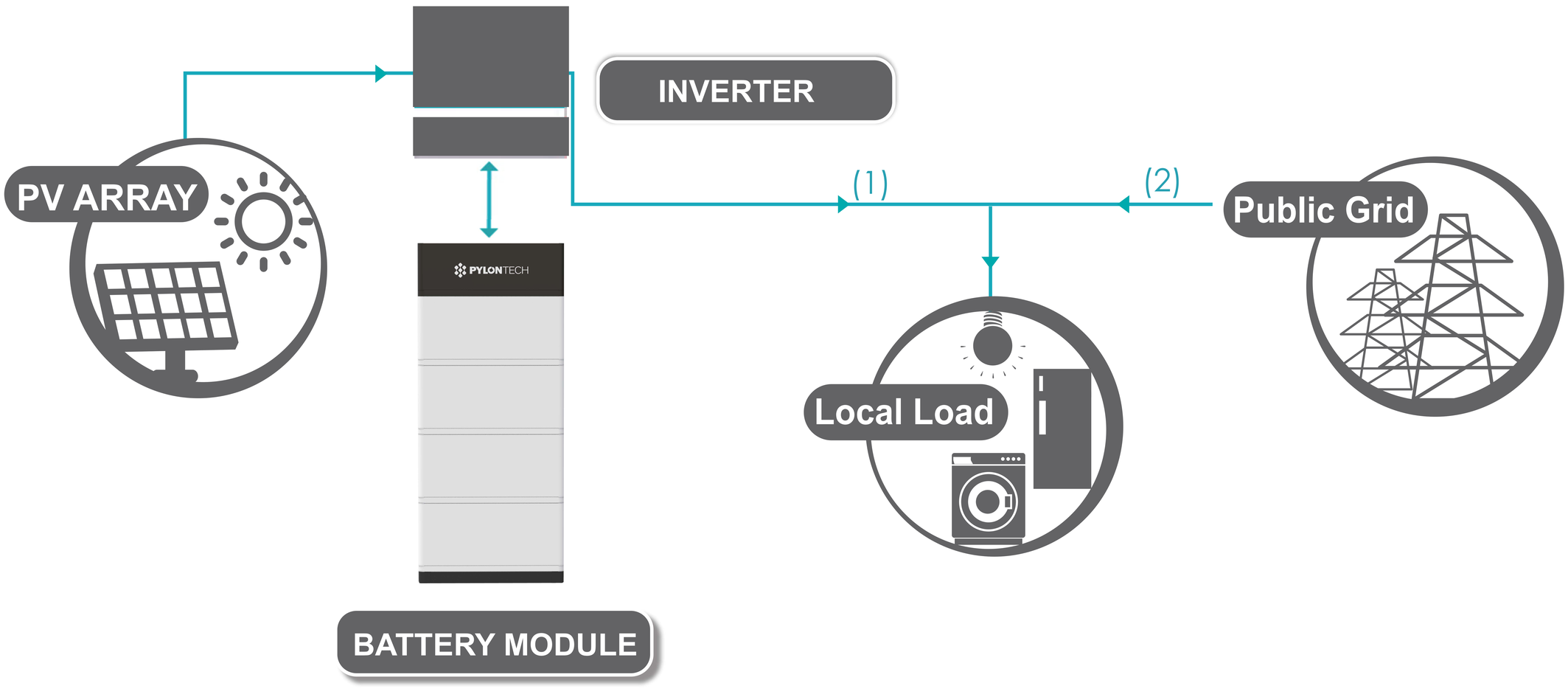
PYLONTECH FORCE SERIES

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

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 Current(A)	(Recommend)	30	45	60	75	90	100
	(Continuous)	75	100	100	100	100	100
	(Peak@15s)	105	105	105	105	105	105
Communication		CAN,RS485					
Protection Class		IP55					
Working Temperature(℃)		-20~60					
Storage Temperature(℃)		-20~60					
Humidity		5%-95%					
Altitude (M)		＜4000					
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 Current(A)	(Recommend)	30	45	60
	(Continuous)	75	100	100
	(Peak@15s)	105	105	105
Communication			CAN,RS485	
Protection Class			IP55	
Working Temperature(℃)			-20~60	
Storage Temperature(℃)			-20~60	
Humidity			5%-95%	
Altitude (M)			＜4000	
Design Life			15 +Years (25℃/°F)	
Cycle Life			＞6000, 25℃	
Authentication Level			VDE/IEC62619/CE/UN38.3	

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