



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@60s)	74 (Max@60s)	50 (Max@60s)
	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	