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 |

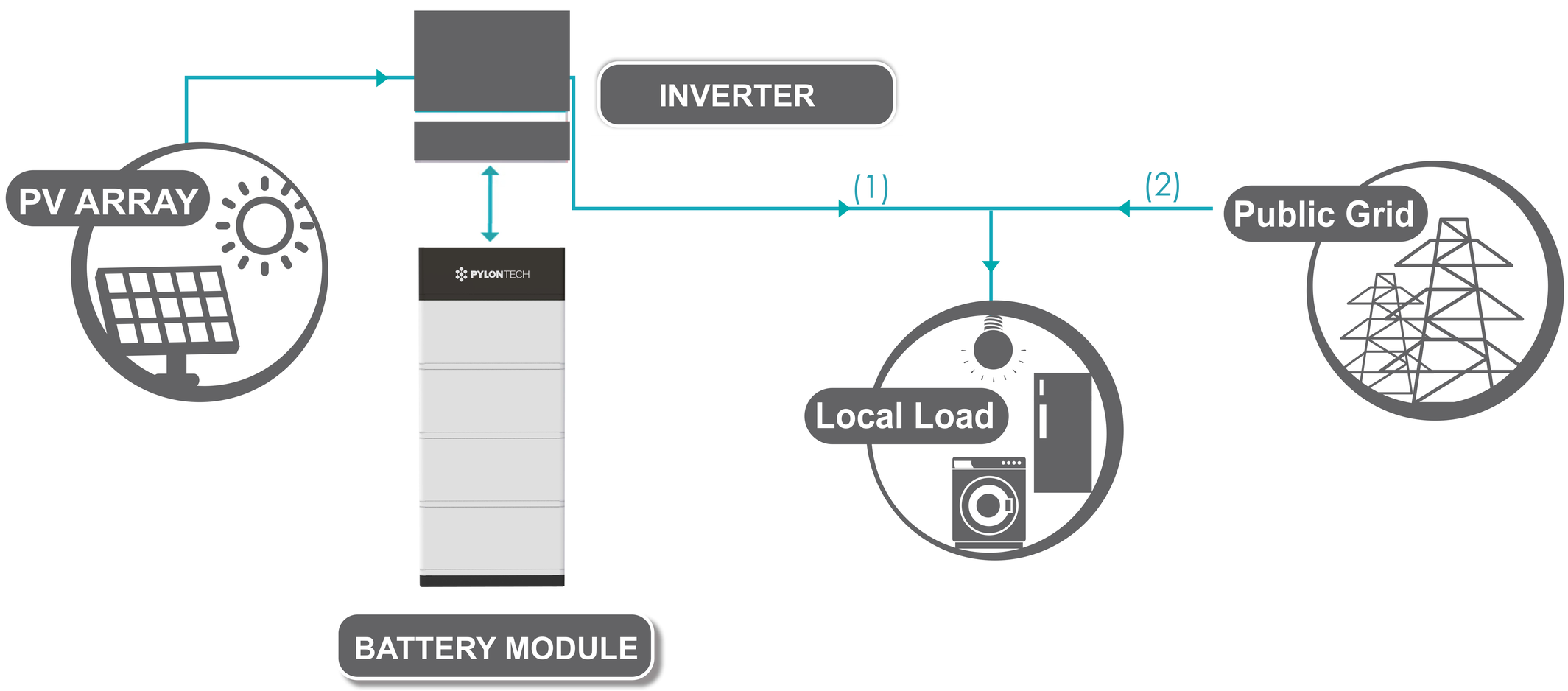
## *PYLONTECH FORCE SERIES*

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 | |

Cube the Force | PYLONTECH

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