派 能 科 技
PYLON TECHNOLOGIES

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Battery Modules for Residential and Small Business Storage Systems

With long years' experience in Li-ion battery manufacturing, Pylontech has provided battery modules for residential and small business storage systems. Technology is based on $LiFePO_4$, the embedded BMS is in compatible with inverters from various manufacturers. Up-to-date international safety standards and rules are fulfilled. Other features include long lifetime, user-friendly LCD display and more. In-house R&D covers long value chain: from critical raw materials, cell, pack, to BMS, thus state-of-the-art product is ensured.

Advantages

- High Performance with Cycle 8000 (80% DOD)
- Continuous Charge/Discharge Current：100A (2C)
- High Reliability with 2 MCUs
- Bus Hardware Options: RS232/485, CAN
- Multi-Tier ESS (Energy Management System)
- Safety Cert.：TÜV、CE、UN38.3、TLC
- Modular Design
- Optimized Configuration for Installation
- Easy for Maintenance
- One Button Operation
- Hierarchy Management Architecture
- No Memory Effect, Long Lifetime
- Integrated BMS

Application

*We reserve the rights to technical changes. Technical data, specification, images, diagram etc. herein shall be regarded as guideline and not binding.

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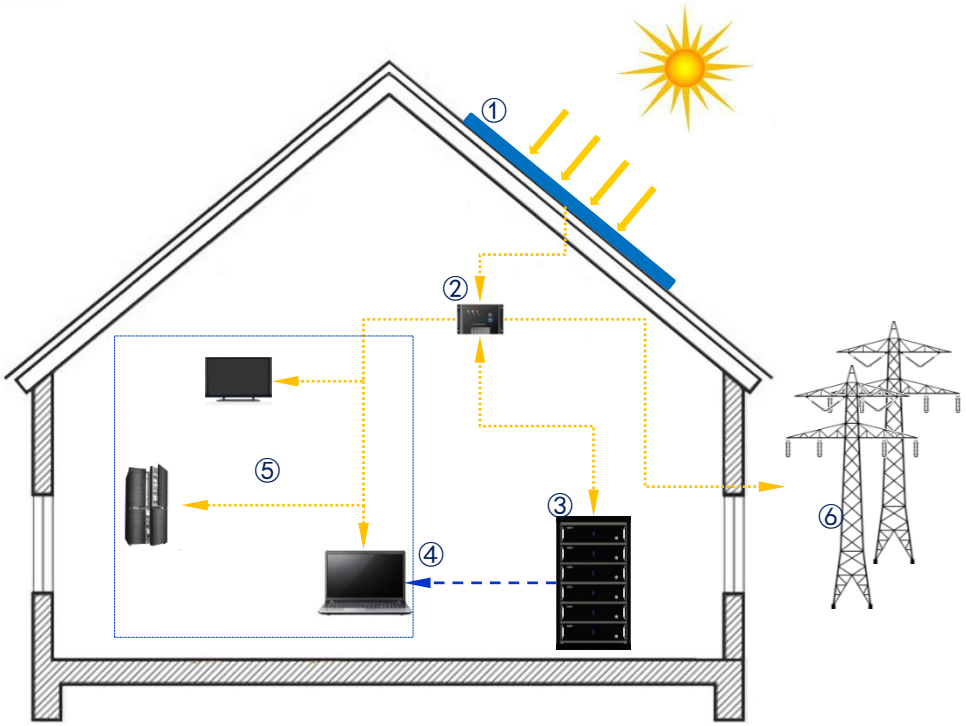
Solution



1. Solar Panels 2. Controller 3. Storage Battery
4. EMS 5. Household Load 6. Grid

Features

- Capacity extensible by parallel connection, max. up to 2000Ah (48V)
- Optional module-wise installation – horizontal or vertical, 50% space saved comparing with lead-acid type battery.
- BMS controls power charge, discharge, safety protection mechanism and more. No human operation needed.

Specifications

Specification	Basic Parameters	US 2000A	US 2000B
Nominal	Nominal Voltage (V)	48	
	Nominal Capacity (Ah)	50	
Physical	Dimension (mm)	436*370*132	441*450*95
	Weight (Kg)	30	
Electrical	Discharge Voltage (V)	45 ~ 54	
	Charge Voltage (V)	52.5 ~ 54	
	Maximum Discharge Current (A)	50 (1C)	100 (2C)
	Maximum Charge Current (A)	50 (1C)	100 (2C)
Others	Communication Port	RS232, CAN	RS232 , RS485 , CAN
	Working Life	15 Years (25℃/77℉)	
	Cycle Life	>6,000 (Temp. 25℃, DoD 95%) EOL 60% >8,000 (Temp. 25℃, DoD 80%) EOL 60%	
	Working Temperature	0℃~50℃	
	Safety Certifications	TÜV、CE、UN38.3、TLC	