





Residential BESS US Series

Powercube X Series

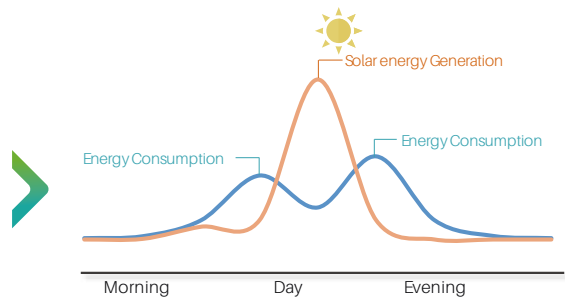
-  **Safety and Reliability**
Ensured by by self-designed and manufactured cell, modules and BMS
-  **Optimal Electricity Cost**
Long cycle life and superior performance
-  **Compact Size & Easy Installation**
Module design for quick installation
-  **Easy to Scale Up**
Multi-groups in parallel to expand the capacity.
-  **Compatibility**
Compatible with Top inverter brands



How to save on bill from Residential ESS?

Self-Consumption Optimization

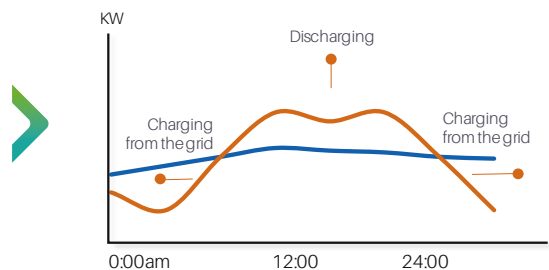
High energy demand in the morning and evening but solar energy generation is most sufficient during the Mid-Day. Battery storage system balances the feeding and demands. Realize your grid independence.



Benefits from Peak Shaving

House: Load Shifting

Store energy during off-peak and use energy at peak-time. Save on the electricity bills by reducing peak demand.



VPP Revenue

VPP creates a network of renewable energy sources and battery storage systems, connected through a cloud-based technology that manages the stability of clean electricity to maximize your revenue.

Enabling a cost reduction, as well as boosting the system's efficiency



SPECIFICATION (48V)



| Model | US2000C | US3000C | US5000 |
|-----------------------------------|---|---|--|
| Basic Parameters | | | |
| Nominal Voltage (Vdc) | 48 | 48 | 48 |
| Nominal Capacity(kWh) | 2.4 | 3.55 | 4.8 |
| Usable Capacity(kWh) | 2.28 | 3.37 | 4.56 |
| Dimension(mm) | 442*410*89 | 442*410*132 | 442*420*161 |
| Weight(kg) | 22.5 | 32 | 39.7 |
| (Recommend) | 25 | 37 | 80* |
| Charge/ (Max. Continuous) | 25 | 37 | 100* |
| Discharge (Peak 1) | 50~89@60sec | 74~89@60sec | 101~120@15min |
| Current(A) (Peak 2) | 90~200@15sec | 90~200@15sec | 121~200@15sec |
| Communication Port | RS485,CAN | | |
| Single string quantity(pcs) | 16 | 16 | 16 |
| Working Temperature/ °C Charge | 0~50 | | |
| Working Temperature/ °C Discharge | -10~50 | | |
| Shelf Temperature/ °C | -20~60 | | |
| Short current/duration time | <4000A/2ms | <4000A/2ms | <2000A/1ms |
| IP rating | IP20 | | |
| Cooling type | Natural | | |
| Humidity | 5% ~ 95%(RH) No Condensation | | |
| Altitude(M) | <4000 | | |
| Design life | 15+ Years (25 °C /77 °F) | 15+ Years (25 °C /77 °F) | 15+ Years (25 °C /77 °F) |
| Cycle Life | >8,000 25 °C | >8,000 25 °C | > 8,000 25 °C |
| Certification | UL1642/ IEC62619 /IEC63056 /ICE61000-6-2/3 UN38.3 | UL1973 /UL1642 /UL9540A/VDE2510-50 /IEC63056/IEC62619 /IEC62040/IEC62477-1 /ICE61000-6-2/UN38.3 | UL1973/UL9540A IEC62619/IEC63056 /ICE61000-6-2/3 /UN38.3 |

SPECIFICATION (96~864V)



| Battery Model | Powercube X1/H1 | Powercube X2/H2 |
|---|--------------------------------|--------------------------------|
| Data Parameter | | |
| Battery Module | H48050 | H48074 |
| Battery Module Voltage(Vdc) | 48 | 48 |
| Battery Module Capacity(Ah) | 50 | 74 |
| Battery Module Capacity(kWh) | 2.4 | 3.55 |
| Dimension (W*D*H mm) | 442*390*100 | 442*390*132 |
| Weight(kg) | 24 | 32 |
| Configuration (Max. in 1 battery group) | 2~18 | 2~18 |
| Battery System Voltage(V) | 864 | 864 |
| Battery System Capacity(Ah) | 50 | 74 |
| Battery System Capacity(kWh) | 43.2 | 63.9 |
| Depth of Discharge | 95% | |
| Efficiency(@0.5C-rate) | 96% | |
| Communication | Modbus RTU/CAN | |
| Short circuit rating/Duration | <3000 2ms | |
| IP rating | IP 20 | |
| Operation Temperature(C) | 0~50 C | |
| Shelf Temperature(C) | -20~60 C | |
| Humidity | 5%~95% | |
| Design Life | 15+ Years (25 C /77 F) | |
| Cycle Life | > 8,000 25 C | > 8,000 25 C |
| Multi-Group | Max. 6 systems in parallel | |
| Certification | IEC62619/VDE2510-50 /CE/CEC | IEC62619/VDE2510-50 /CE/CEC |