



## Residential BESS

*Rack Mounted type-LV*



### Safety

Multi-protection from self developed BMS



### Optimal Electricity Cost

Long cycle life and superior performance



### Compact Size & East Installation

Module design help for quick installation



### Easy to Scale Up

Be workable to be parallel based on 48V



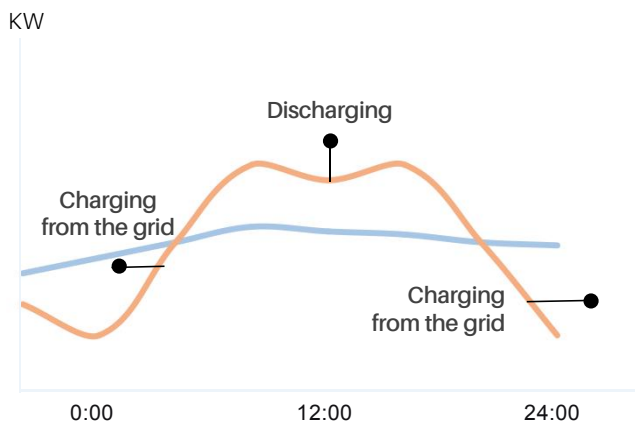
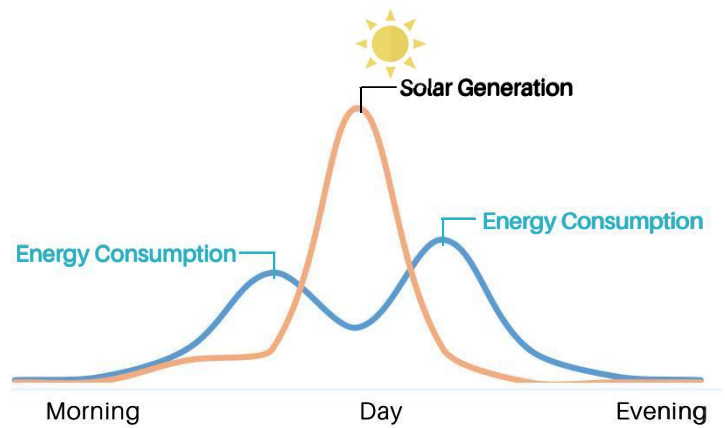
### Compatibility

Compatible with Tier 1 inverter brands

# How to save bill from Residential ESS?

## 1. Self-Consumption Optimization

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



## 2. Benefits from Peak Shaving

### House: Load Shifting

Store the power during low-peak and use the energy at peak-time. Save the money which happens arising from peak rate.

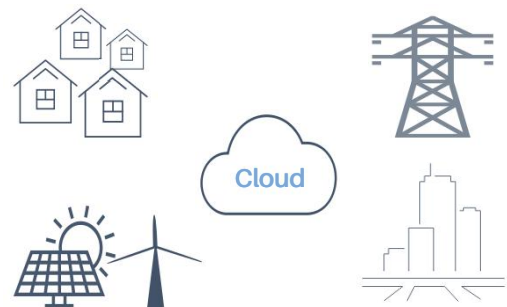
### Transmission&Distribution: peak Shaving

Save on the electricity bills by reducing peak demand

## 3. 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)



### Module

#### Basic Parameters

|                                    |                   |                                                         |                                                                                                         |                                                                   |
|------------------------------------|-------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Nominal Voltage (Vdc)              |                   | 48                                                      | 48                                                                                                      | 48                                                                |
| Nominal Capacity(Wh)               |                   | 2400                                                    | 3552                                                                                                    | 4800                                                              |
| Usable Capacity(Wh)                |                   | 2280                                                    | 3374                                                                                                    | 4560                                                              |
| Dimension(mm)                      |                   | 442*410*89                                              | 442*420*132                                                                                             | 442*420*161                                                       |
| Weight(kg)                         |                   | 22.5                                                    | 32                                                                                                      | 39.7                                                              |
| Charge/<br>Discharge<br>Current(A) | (Recommend)       | 25                                                      | 37                                                                                                      | 80*                                                               |
|                                    | (Max. Continuous) | 25                                                      | 37                                                                                                      | 100*                                                              |
|                                    | (Peak 1)          | 50~89@60sec                                             | 74~89@60sec                                                                                             | 101~120@15min                                                     |
|                                    | (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 of enclosure             |                   |                                                         | IP20                                                                                                    |                                                                   |
| Cooling type                       |                   |                                                         | Natural                                                                                                 |                                                                   |
| Humidity                           |                   |                                                         | 5% ~ 95%(RH) No Condensation                                                                            |                                                                   |
| Altitude(M)                        |                   |                                                         | <4000                                                                                                   |                                                                   |
| Design life                        |                   |                                                         | 15+ Years (25℃/77°F)                                                                                    |                                                                   |
| Cycle Life                         |                   |                                                         | >6,000 25℃                                                                                              |                                                                   |
| Authentication Level               |                   | UL1642/ IEC62619<br>/IEC63056<br>/ICE61000-6-2/3 UN38.3 | UL1973 /UL1642/UL9540A<br>/VDE2510-50/IEC63056<br>/IEC62619/IEC62040/IEC62477-1<br>/ICE61000-6-2/UN38.3 | UL1973/UL9540A<br>IEC62619/IEC63056<br>/ICE61000-6-2/3<br>/UN38.3 |

\*: The recommended and max. continuous operation current is for a battery cell temperature within 10~40°C to consider, out of such temp. range will cause a derating on operation current.

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