
# Smart Residential Energy Storage Solutions

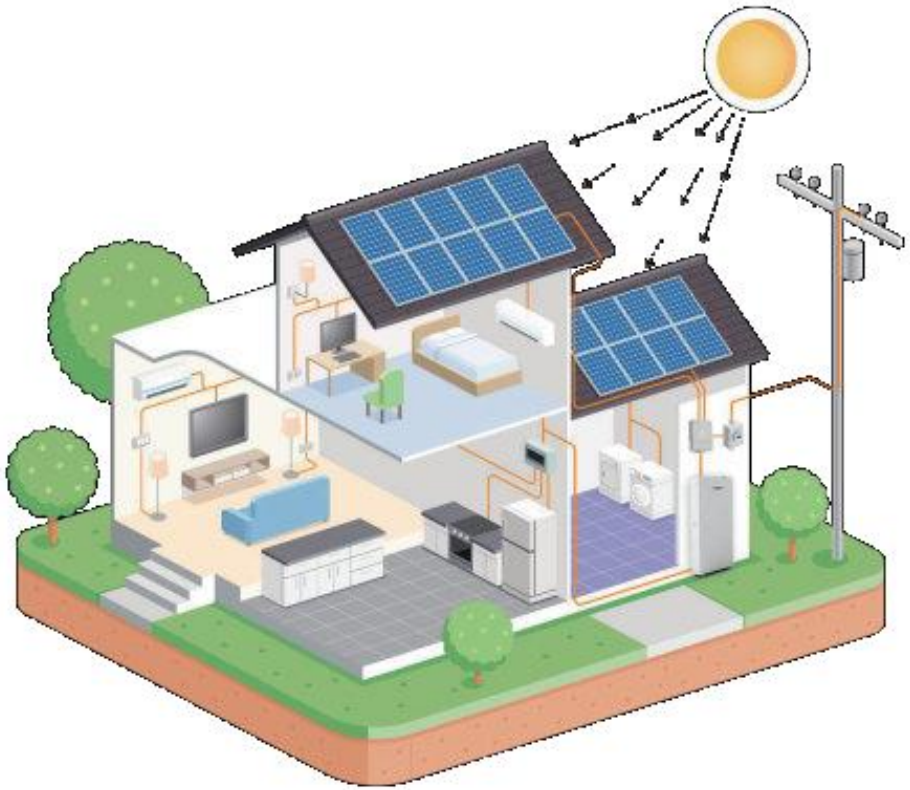
Save Your Energy Bill
Power Your Day& Night

V1.0

# Residential Energy Storage Solution

Residential Energy Storage system is one kind of green, efficient, advanced and safe energy supplying system, which saves home electricity cost by storing energy from off-peak hours and surpus clean energy generated from photovoltaic system, pefectly designed for PV self-consumption, back-up power, load shifting and off-grid soltuion for household applications.

Integrated with most reliable Li-FePo4 battery enery storage system and home energy management system, the solution is expandable on demand and has a variatey of combinations,flexible, efficient and customized products and services, it is friendly to home owners to build a clean, independent and economic smart& micro-grid.



# The Benefits of Residential Energy Storage Solution

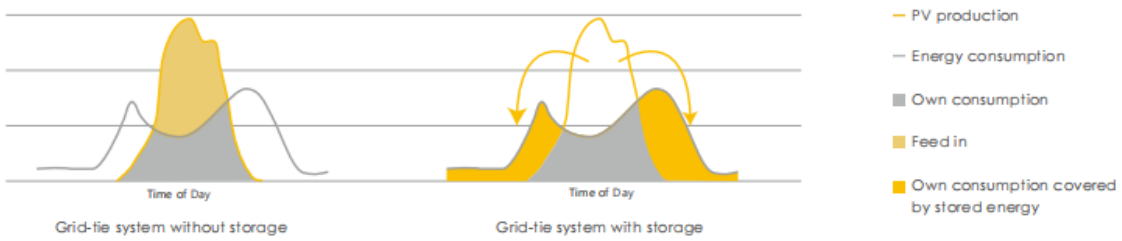
- Save money
- Back-up power
- Energy independence
- Enviromenteally friendly

It is not necessary to say that people want to save money and have greater control of their power use.With the power costs expected to continue rising, it makes sense that families look to store energy, they are producing and use it later in the day, reducing their power bills.

# ESS Application Scenarios

## Self-Consumption Optimization

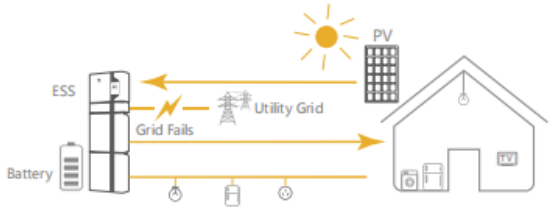
The typical electricity demand curve usually doesn't meet the PV generation curve. By storing the surplus PV generation into a battery storage unit, you can maximize self-consumption and reduce your electricity bill.




*For illustration purposes only. Profiles and usage patterns shall vary between homes.

## Backup-Uninterrupted Power Supply (UPS)

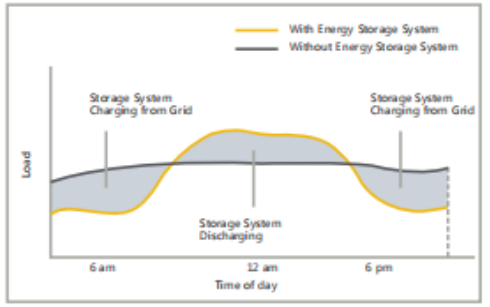
Storage system will continue to provide electricity when the grid fails.




•The system can switch to an off-grid mode when a power outage occurs or grid power supply is insufficient.
• Users can also set UPS emergency priority or UPS emergency reserve to meet your needs.

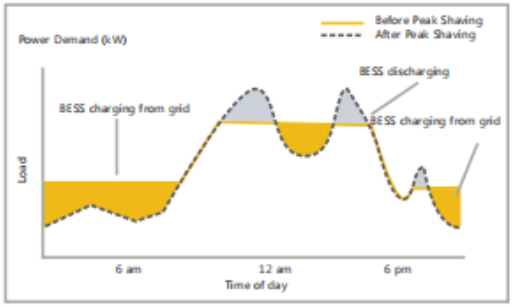
## Load Shifting

Reduce your electricity bill by storing electricity during off-peak time and shift energy to be used at peak time.



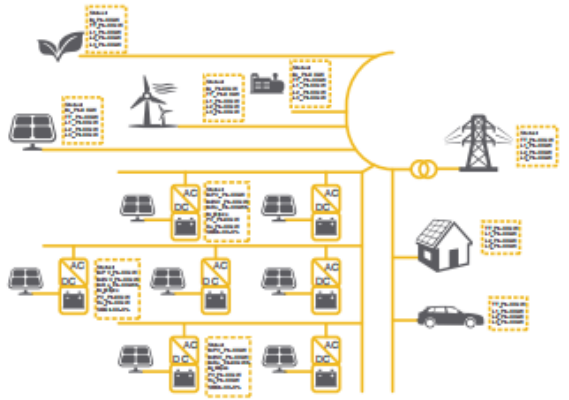

## Peak Shaving

The goal is to avoid the increase of import capacity to supply the peaks of a variable load. Energy storage provides a fast response and emission-free solution.




## Smart Grid / Micro Grid

Controls and monitors various power generation sources to form the foundation of smart-grid and smart-city.



## Frequency Response

Restore and balance supply and demand, the storage system is charged or discharged in response to signals sent by the network to increase or decrease grid frequency, and keep it within pre-set limits.

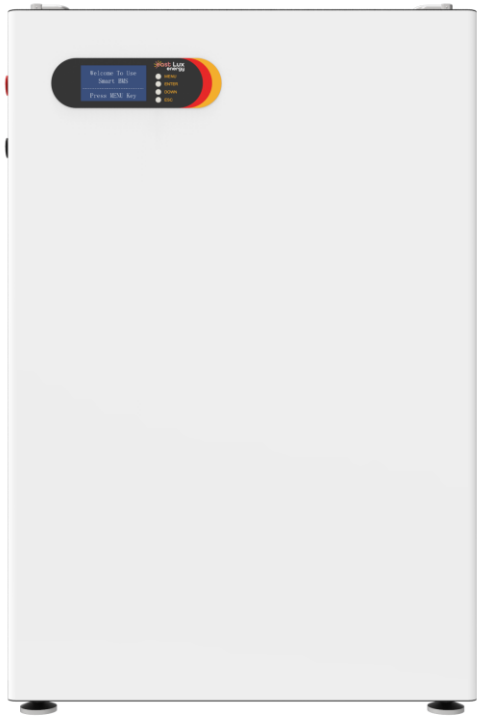
## Products

### Compact Series

5KW/ 100AH

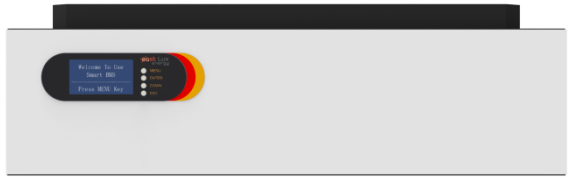
### Eco Series

10KW/ 200AH



### Stack’d Series

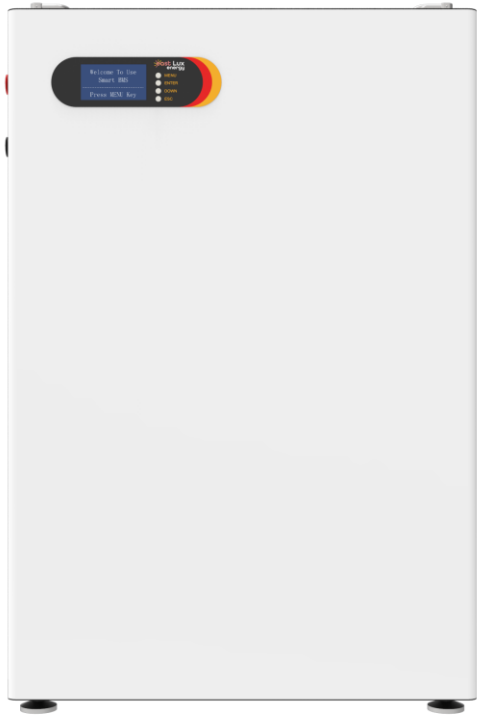
5KW/ 100AH



# Specification

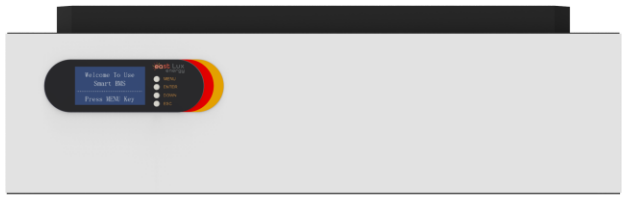
| Model | EL5KCS |
|---|---|
| Battery Type | LFP (LiFePO4) |
| Energy | 5120Wh |
| Module Capacity | 100Ah |
| Rated Voltage | 51.2V |
| Max Charge/ discharge Current | 100A |
| DOD | 96% |
| Max Parallel Quantity | 16pcs in Parallel |
| Operating Temperature | -10℃~60℃ |
| IP Protection | IP65 (outdoor) |
| Installation Method | Wall-Mount |
| Communication | RS485/ CAN/ RS232 |
| Compatibility | with most inverters in the market |
| Net Weight | 46.5Kg |
| Dimension( L*W*H) | 635*165*400mm |
| Warranty | Up to 10years or 6000 cycles, >70% capacity |
| Certification | UN 38.3, UL 1642, UL 1973, IEC 62619, IEC 63056, IEC 62040 |

# Specification



| Model | EL10KES |
|---|---|
| Battery Type | LFP (LiFePO4) |
| Energy | 10240Wh |
| Module Capacity | 200Ah |
| Rated Voltage | 51.2V |
| Max Charge/ discharge Current | 200A |
| DOD | 96% |
| Max Parallel Quantity | 16pcs in Parallel |
| Operating Temperature | -10℃~60℃ |
| IP Protection | IP65 (outdoor) |
| Installation Method | Wall-Mount |
| Communication | RS485/ CAN/ RS232 |
| Compatibility | with most inverters in the market |
| Net Weight | 90Kg |
| Dimension( L*W*H) | 635*165*800mm |
| Warranty | Up to 10years or 6000 cycles, >70% capacity |
| Certification | UN 38.3, UL 1642, UL 1973, IEC 62619, IEC 63056, IEC 62040 |

# Specification



| Model | EL5KSS |
|---|---|
| Battery Type | LFP (LiFePO4) |
| Energy | 5120Wh |
| Module Capacity | 100Ah |
| Rated Voltage | 51.2V |
| Max Charge/ discharge Current | 100A |
| DOD | 96% |
| Max Parallel Quantity | 16pcs in Parallel |
| Operating Temperature | -10℃~60℃ |
| IP Protection | IP65 (outdoor) |
| Installation Method | Wall-Mount |
| Communication | RS485/ CAN/ RS232 |
| Compatibility | with most inverters in the market |
| Net Weight | 47Kg |
| Dimension( L*W*H) | 635*400*192mm |
| Warranty | Up to 10years or 6000 cycles, >70% capacity |
| Certification | UN 38.3, UL 1642, UL 1973, IEC 62619, IEC 63056, IEC 62040 |

# Core Technology

## Ultra German Standard BMS

-Built-in advanced chipset regulate charging, discharging, and temperatures

-Multiple-levle protections based on the data collected and monitored

-Intelligent SOC ( State of Charge) algorithm

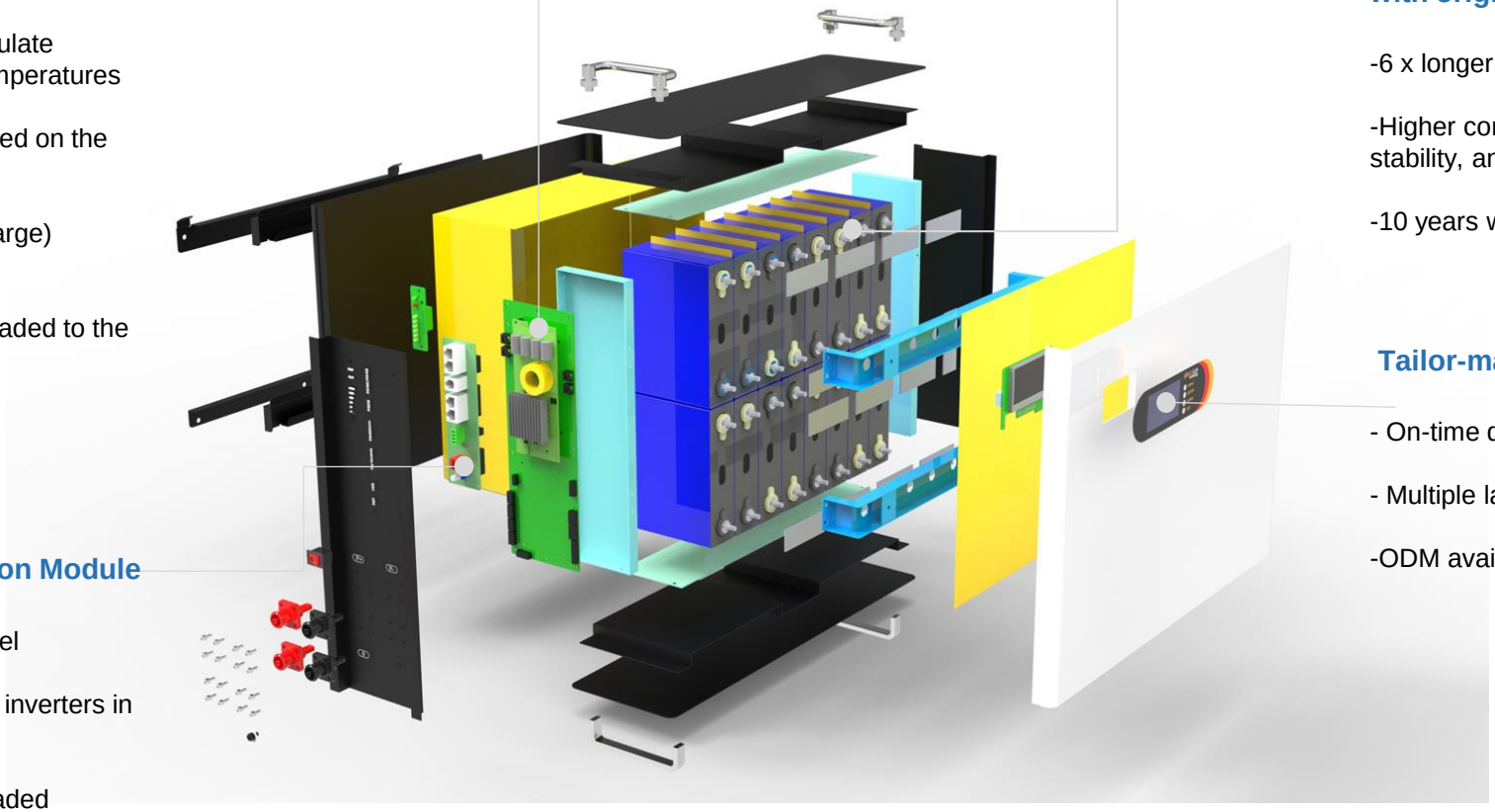
- Capable to be remotely upgraded to the latest version

## Up-to-date Communication Module

-Multiple communication chanel

-Compatible with most hybrid  inverters in the market

-Capable to be remotely upgraded



## Grade A Eve ( Tier 1) LFP battery cell with original tracking barcode.

-6 x longer lifesapn

-Higher consistency ensure excellent safety, stability, and reliability

-10 years warranty

## Tailor-made LCD screen

- On-time data display

- Multiple language available

-ODM available

# Core Value

## QUALITY

Made from grade A battery cell from EVE( a tier-1 battery cell manufacturer with 9GWh+ production cpacity). German designed and proven BMS provides critical safeguards to protect and prolong the life of batteries.

## EXPERIENCE

Engineering team with average 10yrs+ experience in PV and energy storage solution. In depth know-how from PV power generation to battery based energy storge to delivery the guarantted and premimum technical support and consultation.

## SERVICE

East Lux is helping to advance the clean energy revolution from PV  soltuion to battery based ESS in over 50 different countries and regions. Making clean energy beneficial to the greatest extent to everyone in the world.

## Compatible Inverters

Tested and proven to communicate with most inverter in the market.

# Thank You !