



# ESY SUNHOME

A Professional Energy Storage Product Company

[www.esysunhome.com](http://www.esysunhome.com)



ESY SUNHOME emerged as a pioneer in the lithium battery industry, driven by cutting-edge battery protection systems and a dedicated Research & Development team. Recognizing the global gap in energy storage choices for households, the company envisioned integrating photovoltaic energy storage solutions with lithium batteries. Aligned with this vision, our team diligently engaged in the development and rigorous testing of PV home energy storage products.

Our cohesive team, comprising highly qualified professionals in Research and Development, manufacturing, and quality control, boasts distinguished backgrounds in various technological fields. After two years of dedicated effort, we achieved a significant milestone with the successful development and testing of PV home energy storage products. This culminated in the official launch of the HM6 series storage system products on January 14th, 2023.

ESY SUNHOME has expanded its reach, establishing branches in Sydney, Australia, and Munich, Germany. Our long-term objective is to evolve into a globally recognized brand, committed to advancing energy storage solutions and contributing to sustainable practices on a global scale.

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## > Core Values

- Collaborative Spirit
- Down-to-Earth Practicality
- Forward-thinking Innovation
- Rigorous Scientific Craftsmanship
- Delivering Value for Clients
- Making a Positive Impact on Society

## > Mission

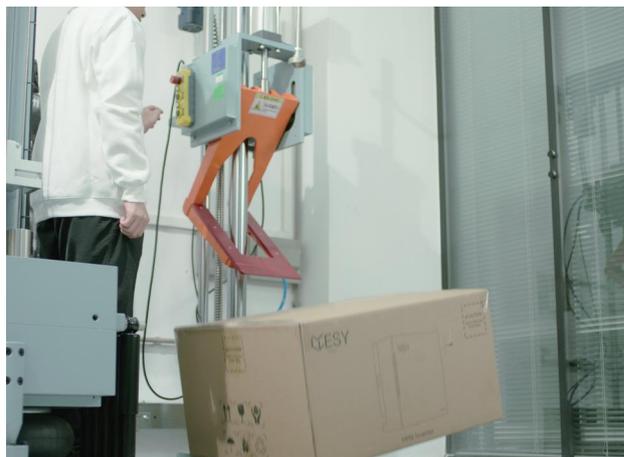
To deliver safe and reliable renewable energy solutions to our customers.

## Production Management



ESY SUNHOME has its production bases and full-process production chain and integrates management systems such as ERP, MES, and WMES. It can also implement informatization precisely throughout the production, material traceability and warehousing management.

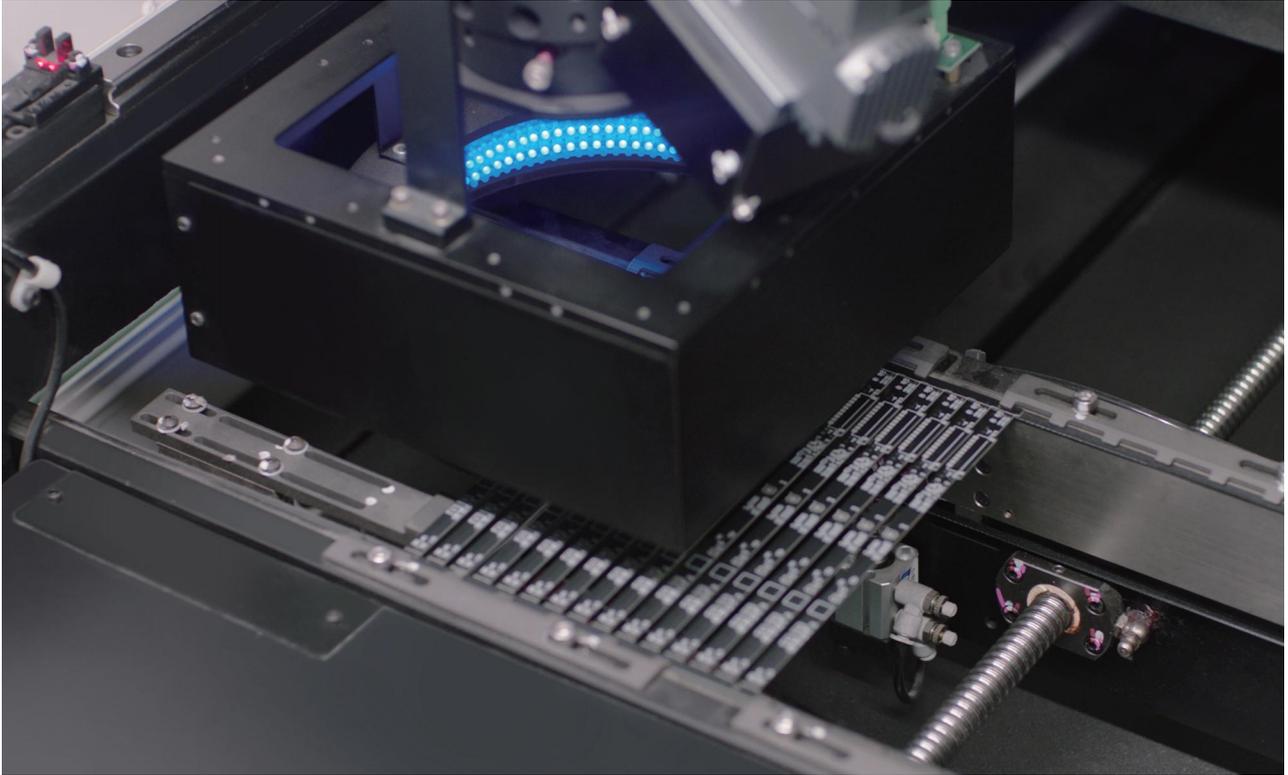
## Quality Control



Before delivery, each type of product will be put through strict quality controls such as aging, falling, waterproofing, radiation and other tests to ensure quality, performance and safety. Strict quality controls embed the entire production process, which is a crucial mission of ESY SUNHOME.

## Research and Development

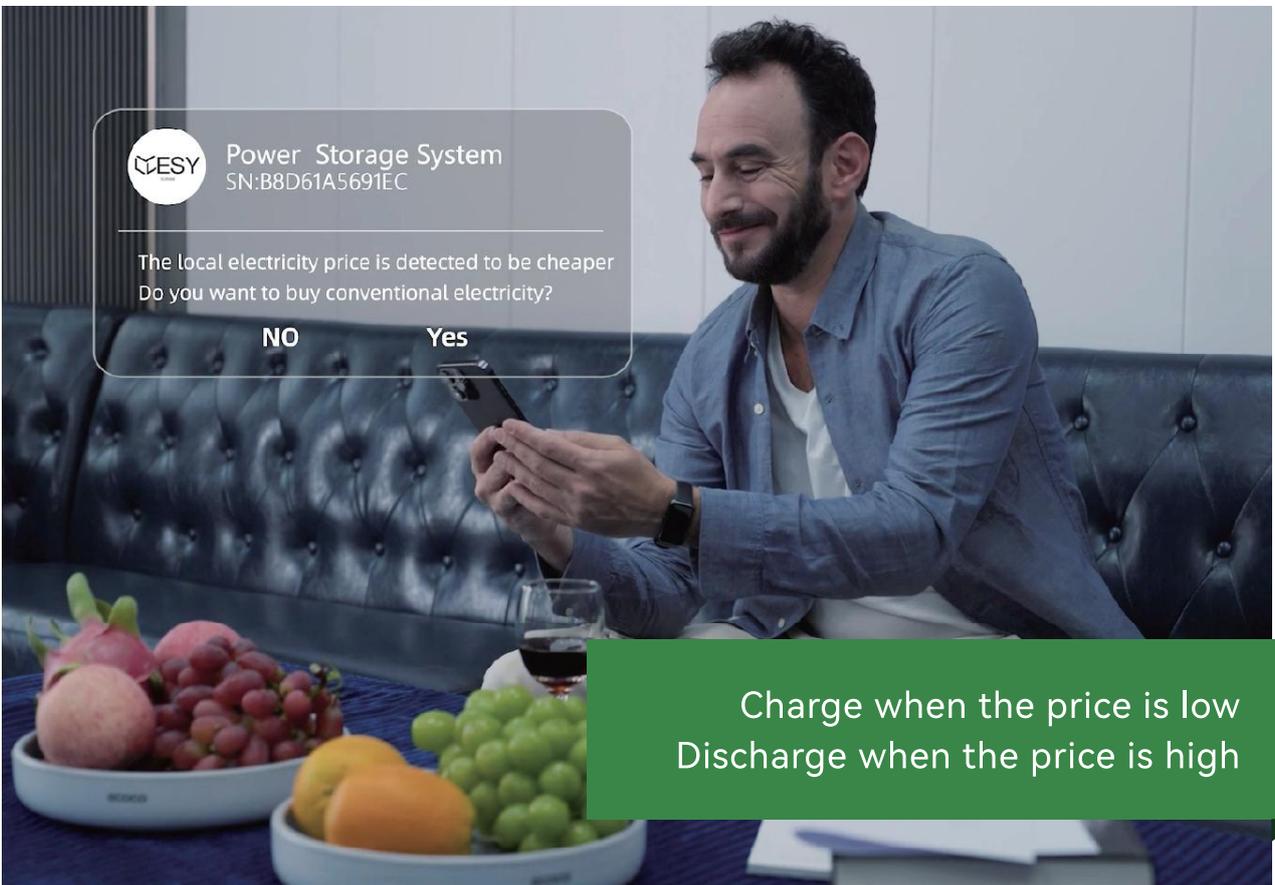
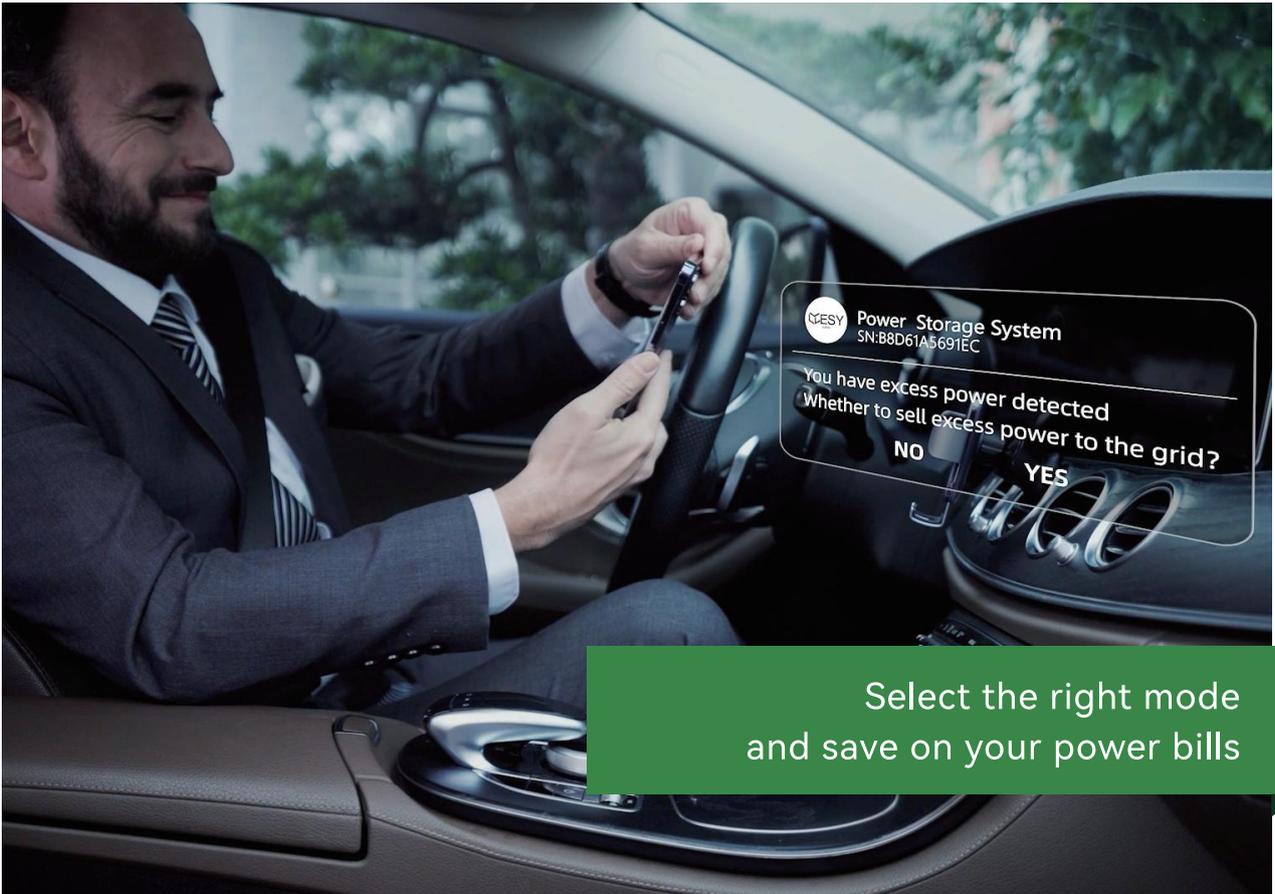
At ESY SUNHOME, our dedicated focus is on proprietary research and development. We bring together inverters, energy storage batteries, and IoT technology to create a comprehensive home solution for "solar, storage, and charging." Every pivotal technology in this system is crafted by our skilled R&D team.



Our strengths lie in cutting-edge technologies like BMS, EMS management systems, an IoT mobile app platform, and AI-driven intelligent algorithms, making ESY SUNHOME a trailblazer in the realm of new energy storage.

## Business Excellence

ESYSUNHOME excels in multiple areas, including scientific manufacturing capabilities, a proficient in-house R&D team, rigorous production processes, and stringent quality control procedures. Additionally, we've established a top-notch overseas marketing and branding operation team. These combined strengths enable us to cover the full spectrum of operations, from production to marketing.





## Residential Energy Storage System Mobile Application

The ESY SUNHOME APP introduces a cloud-based platform for residential energy storage, meticulously developed by our Internet of Things Research & Development team through years of dedicated work. This commitment to excellence is driven by our goal to provide every household with a secure energy storage application system that offers user-friendly simplicity, operational convenience, heightened safety, and unwavering stability.



iOS



Android

## Advantages of **ESY SUNHOME APP**

### **Dynamic Analysis**

Compared with the traditional dashboard to view and adjust parameters, our APP provides easy control of the operation status of the home energy storage system.

### **Revenue Monitoring**

The latest power generation and revenue can be tracked through intelligent charts, and the data of electricity purchase and sale can be monitored in real-time to maximize the revenue of users.

### **Safety Warning**

When an abnormal situation occurs in the residential energy storage system, an early warning will notify the local installation service provider to operate and maintain in time.

### **Artificial Intelligent Control**

The Artificial Intelligence (AI) mode can provide users with the best solution in real-time by combining the user's electricity consumption, climate conditions of the living environment, electricity price, and other factors.

# What is ESY SUNHOME Residential Energy Storage System



Stand-by emergency power supply, seamless switching power supply for power failure detection.



Equipped with photovoltaic panels, using sunlight to generate electricity, the independent household power station provides environmentally friendly electricity and stores it for self-use.



It can be operated in dual modes of off-grid and grid-connected, intelligently switch according to grid, load, electricity price, and weather conditions, push AI mode preference settings, and stabilize the power supply and energy storage.



Utilize photovoltaic power generation, low electricity price, battery with long cycle life, and peak-to-valley adjustment to save electricity costs and generate value for users.



Utilize the ESY SUNHOME APP to instantly monitor power generation, customize performance settings, and track system operations whenever needed.



Use solar energy to charge and store power in low valleys to reduce carbon emissions and help carbon neutrality.



Central to its essence, the fusion of light, storage, and charging embodies an active participant within the shared smart energy ecosystem. This evolution transcends the traditional role of a "consumer" to that of a "prosumer," enabling each user to engage in both electricity consumption and generation with utmost seamlessness.

# Advantages of HM Series

## Easy Installation

HM-Series is a plug-and-play energy storage system and can support multiple battery expansion.

## Temperature Resistance

Equipped with cell heating films, effectively works under variable weather conditions.

## IP66 Certificate

Waterproof & Dustproof IP66 (few manufactories get this Certificate).

## 24-hour Monitoring System

When an abnormal situation occurs, an early warning will notify the local installation service provider to operate and maintain in time.

## Expandable Capacity

Flexibly configure your battery capacity from 5kWh to 30kWh for single-phase and from 10kWh to 90kWh for three-phase systems, with parallel support.

## Artificial Intelligence (AI) Operation

Perform Artificial Intelligence (AI) Operation on the cloud platform and recommend the best operation mode according to preference.



## HM6 (Single Phase) All-In-One Residential Energy Storage System

Model	Battery Quantity	Max. Output Power	Usable Energy	Dimensions (LxWxH)	Weight
HM6-05	1	5 kW	5.12 kWh	600x305x778 mm	93 kg
HM6-10	2	6 kW	10.24 kWh	600x305x998 mm	143 kg
HM6-15	3	6 kW	15.36 kWh	600x305x1218 mm	193 kg
HM6-20	4	6 kW	20.48 kWh	600x305x1438 mm	243 kg
HM6-25	5	6 kW	25.60 kWh	600x305x1658 mm	293 kg
HM6-30	6	6 kW	30.72 kWh	600x305x1878 mm	343 kg

Parameters	
Battery Type	IFpP
Cycle Life	≥6000 Times 25 °C
Max. Efficiency	97.8%
MPPT Efficiency	99.9%
Mounting	Modular Stacking/Ground
Communication	WiFi/Bluetooth/DRM/4G
Application Software Support System	iOS/Android/Web
Cooling Method	Natural Cooling
Operating Temperature Range	-25~60 °C (Derating above 45 °C)
Optimum Operating Temperature Range	25±2 °C
Humidity	0~100% Relative Humidity
Noise Level	≤25 dB
Protection Rating	IP66
Warranty	10 Years

PV Input	
Max. Input Power	8000 W
Rated Input Voltage	360 Vd.c.
Max. Input Voltage	550 Vd.c.
Starting Voltage	150 Vd.c.
MPPT Voltage Range	100 Vd.c.~540 Vd.c.
PV Max. Input Current	15 Ad.c./15 Ad.c.
Max. Short Circuit Current	20 Ad.c./20 Ad.c.

Backup	
Rated Output Power	6000 W
Max. Apparent Output Power	6000 VA
Rated Output Voltage	230 Va.c. L/N/PE
Rated Output Current	26.09 Aa.c.
Rated Output Frequency	50/60 Hz
Waveform	Sine Wave

Battery	
Rated Voltage	51.2 Vd.c.
Voltage Range	40.8 Vd.c.~57.6 Vd.c.
Rated Charge Current	100 Ad.c.
Rated Discharge Current	120 Ad.c.

Protection	
Anti-islanding Protection	Yes
PV Reverse Polarity Protection	Yes
Insulation Resistance Detection	Yes
Residual Current Detection	Yes
Output Overcurrent Protection	Yes
Output Short Circuit Protection	Yes
Overvoltage Category	II (for PV/Battery) III (for AC Grid Mains)
Battery Reverse Polarity Protection	Yes

AC Grid	
Rated Input Power	6000 W
Rated Output Power	6000 W
Max. Output Apparent Power	6000 VA
Rated Voltage	230 Va.c. L/N/PE
Input Voltage Range	184 Va.c.~276 Va.c.
Rated Current	26.09 Aa.c.
Rated Output Frequency	50/60 Hz
Power Factor Range	0.8 leading~0.8 lagging

## Applicable Standards

### Grid Connection:

AUS: AS 4777.2; CEC+RCM; DE: DIN VDE V 0124-100:2020; VDE-AR-N 4105:2018; AT: OVE Directive R 25:2020; TOR Erzeuger Type A V1.2; IT: CEI 0-21; UK: G99/1-8 typeA; IE: Distribution Code Version 8; BE: C10/11:2021; CH: NA/EEA-NE7-CH:2020; FR: DINVDE 0126-1-1 VFR:2019; ES: NTS 631 V21 SEPE (type A); UNE 217001; UNE 217002; PT: RfG + Portugal deviation

### Safety:

Inverter: IEC 62109-1; IEC 62109-2 Battery: IEC 62619:2022; ISO 13849; IEC/EN 62040-1; VDE 2510-050:2017

### EMC:

IEC 61000-6-1; IEC 61000-6-3



## HM12 (Single Phase) All-In-One Residential Energy Storage System

Model	Battery Quantity	Max. Output Power	Usable Energy	Dimensions (LxWxH)	Weight
HM12-10	2	10 kW	10.24 kWh	600x305x998 mm	143 kg
HM12-15	3	12 kW	15.36 kWh	600x305x1218 mm	193 kg
HM12-20	4	12 kW	20.48 kWh	600x305x1438 mm	243 kg
HM12-25	5	12 kW	25.60 kWh	600x305x1658 mm	293 kg
HM12-30	6	12 kW	30.72 kWh	600x305x1878 mm	343 kg

Parameters	
Battery Type	IFpP
Cycle Life	≥6000 Times 25 °C
Conversion Efficiency	≥98 %
MPPT Efficiency	99.9%
Mounting	Modular Stacking/Ground
Communication	WiFi/Bluetooth/4G
Application Software Support System	iOS/Android/Web
Cooling Method	Air Cooling
Operating Temperature Range	-25~60 °C
Optimum Operating Temperature Range	25±2 °C
Humidity	0~100% Relative Humidity
Noise Level	≤45 dB
Protection Rating	IP66
Warranty	10 Years

## PV Input

Max. Input Power	18 kW
Rated Input Voltage	360 Vd.c.
Max. Input Voltage	550 Vd.c.
MPPT Voltage Range	100 Vd.c.~540 Vd.c.
PV Max. Input Current	30 Ad.c./30 Ad.c.
Max. Short Circuit Current	40 Ad.c.

## Backup

Rated Output Power	12 kW
Rated Output Voltage	230 Va.c. L/N/PE
Rated Output Frequency	50/60 Hz
Waveform	Sine Wave

## Battery

Rated Voltage	51.2 Vd.c.
Voltage Range	40.8 Vd.c.~57.6 Vd.c.
Rated Charge Current	100 Ad.c.
Rated Discharge Current	120 Ad.c.

## Protection

Anti-islanding Protection	Yes
PV Reverse Polarity Protection	Yes
Insulation Resistance Detection	Yes
Residual Current Detection	Yes
Output Overcurrent Protection	Yes
Output Short Circuit Protection	Yes
Overvoltage Category	II (for PV/Battery) III (for AC Grid Mains)
Battery Reverse Polarity Protection	Yes

## AC Grid

Rated Voltage	230 Va.c. L/N/PE
Input Voltage Range	184 Va.c.~276 Va.c.
Rated Current	52.17 Aa.c.
Rated Grid Frequency	50/60 Hz

## Applicable Standards

### Grid Connection:

AUS: AS 4777.2; CEC+RCM; DE: DIN VDE V 0124-100:2020; VDE-AR-N 4105:2018; AT: OVE Directive R 25:2020; TOR Erzeuger Type A V1.2; IT: CEI 0-21; UK: G99/1-8 typeA; IE: Distribution Code Version 8; BE: C10/11:2021; CH: NA/EEA-NE7-CH:2020; FR: DINVDE 0126-1-1 VFR:2019; ES: NTS 631 V21 SEPE (type A); UNE 217001; UNE 217002; PT: RfG + Portugal deviation

### Safety:

Inverter: IEC 62109-1; IEC 62109-2 Battery: IEC 62619:2022; ISO 13849; IEC/EN 62040-1; VDE 2510-050:2017

### EMC:

IEC 61000-6-1; IEC 61000-6-3



## HM15 (3-Phase) All-In-One Residential Energy Storage System

Model	Battery Quantity	Max. Output Power	Usable Energy	Dimensions (LxWxH)	Weight
HM15-20	2	6.6 kW	21.08 kWh	660x270x1713 mm	213 kg
HM15-30	3	9.9 kW	31.62 kWh	660x270x2113 mm	298 kg
HM15-60	6	15 kW	63.24 kWh	(660x270x2113 mm)+ (660x270x1408 mm)x1	558 kg
HM15-90	9	15 kW	94.86 kWh	(660x270x2113 mm)+ (660x270x1408 mm)x2	818 kg

Parameters	
Battery Type	IFpP
Cycle Life	≥6000 Times 25 °C
Conversion Efficiency	98.20%
MPPT Efficiency	99.90%
Mounting	Modular Stacking/Ground
Communication	WiFi/Bluetooth/4G
Application Software Support System	iOS/Android/Web
Cooling Method	Air Cooling
Operating Temperature Range	-25~60 °C
Optimum Operating Temperature Range	25±2 °C
Humidity	0~100% Relative Humidity
Noise Level	≤45 dB
Protection Rating	IP66
Warranty	10 Years

### PV Input

Max. Input Power	30 kW
Rated Input Voltage	650 Vd.c.
Max. Input Voltage	1000 Vd.c.
MPPT Voltage Range	160 Vd.c.~1000 Vd.c.
PV Max. Input Current	16 Ad.c./32 Ad.c.
Max. Short Circuit Current	24 Ad.c./48 Ad.c.
MPPT	2

### AC Output (Backup)

Rated Output Power	15 kW
Max. Output Apparent Power	15 kVA
Rated Output Voltage	400 Va.c. 3L/N/PE
Rated Output Frequency	50/60 Hz
Rated Output Current	21.7 Aa.c.
Max. Output Current	21.7 Aa.c.
Current Harmonics	≤3% (Linear Load)
Switching Time	≤10 ms

### Battery

Rated Operating Voltage	450 Vd.c.
Voltage Range	380 Vd.c.~560 Vd.c.
Protection	BMS/Software/Hardware/Fuse

### Protection

Anti-islanding Protection	Yes
PV Reverse Polarity Protection	Yes
Insulation Resistance Detection	Yes
Residual Current Detection	Yes
Output Overcurrent Protection	Yes
Output Short Circuit Protection	Yes
Battery Reverse Polarity Protection	Yes

### AC Input (Grid)

Max. Input Apparent Power	22.5 kVA
Grid Type	400 Va.c. 3L/N/PE
Max. Input Current	32.6 Aa.c.
Input Voltage Range	320 Va.c.~480 Va.c.
Input Frequency Range	50/60 Hz

### AC Output (Grid)

Rated Output Power	15 kW
Max. Output Apparent Power	16.5 kVA
Rated Output Voltage	400 Va.c. 3L/N/PE
Rated Output Current	21.7 Aa.c.
Max. Output Current	23.8 Aa.c.
Rated Output Frequency	50/60 Hz
Current Harmonics	≤3% (@Rated Power)
Power Factor Range	0.8 leading~0.8 lagging

## Applicable Standards

#### Grid Connection:

AUS: AS 4777.2; CEC+RCM; DE: DIN VDE V 0124-100:2020; VDE-AR-N 4105:2018; AT: OVE Directive R 25:2020; TOR Erzeuger Type A V1.2; IT: CEI 0-21; UK: G99/1-8 typeA; IE: Distribution Code Version 8; BE: C10/11:2021; CH: NA/EEA-NE7-CH:2020; FR: DINVDE 0126-1-1 VFR:2019; ES: NTS 631 V21 SEPE (type A); UNE 217001; UNE 217002; PT: RfG + Portugal deviation

#### Safety:

Inverter: IEC 62109-1; IEC 62109-2 Battery: IEC 62619:2022; ISO 13849; IEC/EN 62040-1; VDE 2510-050:2017

#### EMC:

IEC 61000-6-1; IEC 61000-6-3



## HM20 (3-Phase) All-In-One Residential Energy Storage System

Model	Battery Quantity	Max. Output Power	Usable Energy	Dimensions (L*W*H)	Weight
HM20-20	2	6.6 kW	21.08 kWh	660x270x1713 mm	213 kg
HM20-30	3	9.9 kW	31.62 kWh	660x270x2113 mm	298 kg
HM20-60	6	19.8 kW	63.24 kWh	(660x270x2113 mm)+ (660x270x1408 mm)x1	558 kg
HM20-90	9	20 kW	94.86 kWh	(660x270x2113 mm)+ (660x270x1408 mm)x2	818 kg

Parameters	
Battery Type	IFpP
Cycle Life	≥6000 Times 25 °C
Conversion Efficiency	98.20%
MPPT Efficiency	99.90%
Mounting	Modular Stacking/Ground
Communication	WiFi/Bluetooth/4G
Application Software Support System	iOS/Android/Web
Cooling Method	Air Cooling
Operating Temperature Range	-25~60 °C
Optimum Operating Temperature Range	25±2 °C
Humidity	0~100% Relative Humidity
Noise Level	≤45 dB
Protection Rating	IP66
Warranty	10 Years

### PV Input

Max. Input Power	30 kW
Rated Input Voltage	650 Vd.c.
Max. Input Voltage	1000 Vd.c.
MPPT Voltage Range	160 Vd.c.~1000 Vd.c.
PV Max. Input Current	16 Ad.c./32 Ad.c.
Max. Short Circuit Current	24 Ad.c./48 Ad.c.
MPPT	2

### AC Output (Backup)

Rated Output Power	20 kW
Max. Output Apparent Power	20 kVA
Rated Output Voltage	400 Va.c. 3L/N/PE
Rated Output Frequency	50/60 Hz
Rated Output Current	29.0 Aa.c.
Max. Output Current	29.0 Aa.c.
Current Harmonics	≤3% (Linear Load)
Switching Time	≤10 ms

### Battery

Rated Operating Voltage	450 Vd.c.
Voltage Range	380 Vd.c.~560 Vd.c.
Protection	BMS/Software/Hardware/Fuse

### Protection

Anti-islanding Protection	Yes
PV Reverse Polarity Protection	Yes
Insulation Resistance Detection	Yes
Residual Current Detection	Yes
Output Overcurrent Protection	Yes
Output Short Circuit Protection	Yes
Battery Reverse Polarity Protection	Yes

### AC Input (Grid)

Max. Input Apparent Power	30 kVA
Grid Type	400 Va.c. 3L/N/PE
Max. Input Current	40 Aa.c.
Input Voltage Range	320 Va.c.~480 Va.c.
Input Frequency Range	50/60 Hz

### AC Output (Grid)

Rated Output Power	20 kW
Max. Output Apparent Power	22 kVA
Rated Output Voltage	400 Va.c. 3L/N/PE
Rated Output Current	29.0 Aa.c.
Max. Output Current	31.8 Aa.c.
Rated Output Frequency	50/60 Hz
Current Harmonics	≤3% (@Rated Power)
Power Factor Range	0.8 leading~0.8 lagging

## Applicable Standards

#### Grid Connection:

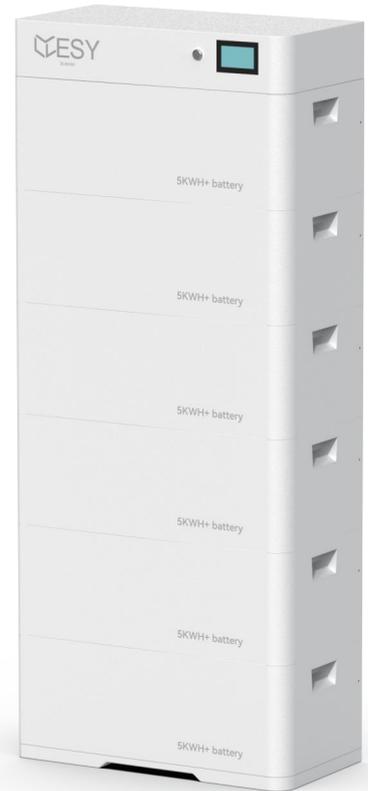
AUS: AS 4777.2; CEC+RCM; DE: DIN VDE V 0124-100:2020; VDE-AR-N 4105:2018; AT: OVE Directive R 25:2020; TOR Erzeuger Type A V1.2; IT: CEI 0-21; UK: G99/1-8 typeA; IE: Distribution Code Version 8; BE: C10/11:2021; CH: NA/EEA-NE7-CH:2020; FR: DINVDE 0126-1-1 VFR:2019; ES: NTS 631 V21 SEPE (type A); UNE 217001; UNE 217002; PT: RfG + Portugal deviation

#### Safety:

Inverter: IEC 62109-1; IEC 62109-2 Battery: IEC 62619:2022; ISO 13849; IEC/EN 62040-1; VDE 2510-050:2017

#### EMC:

IEC 61000-6-1; IEC 61000-6-3



## 5KWH+ Household Energy Storage Battery

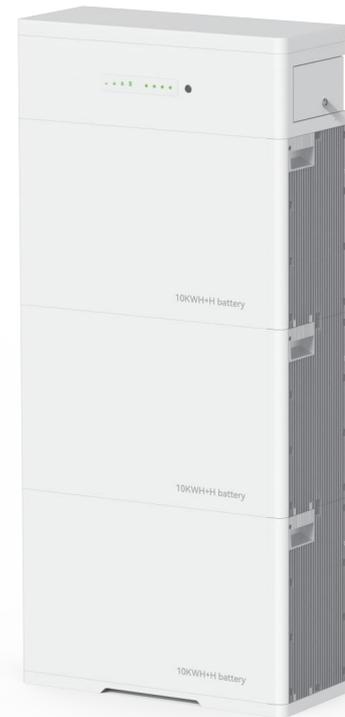
Model	Usable Energy	Dimensions (LxWxH)	Weight	Max. Discharge Power	Max. Discharge Current	Rated Capacity
5KWH+	5.12 kWh	600x305x343 mm	68 kg	5.76 kW	95 A	100*1 Ah
5KWH+2	10.24 kWh	600x305x563 mm	118 kg	11.52 kW	190 A	100*2 Ah
5KWH+3	15.36 kWh	600x305x783 mm	168 kg	13.82 kW	240 A	100*3 Ah
5KWH+4	20.48 kWh	600x305x1003 mm	218 kg	13.82 kW	240 A	100*4 Ah
5KWH+5	25.60 kWh	600x305x1223 mm	268 kg	13.82 kW	240 A	100*5 Ah
5KWH+6	30.72 kWh	600x305x1443 mm	318 kg	13.82 kW	240 A	100*6 Ah

### Parameters

Rated Voltage	51.2 Vd.c.
Voltage Range	40.8 Vd.c.~57.6 Vd.c.
Depth of Discharge	100%
Measuring Accuracy	≤2%
Battery Type	IFpP
Battery Designation	IFpP48/133/174 [16S] M/-20+50/90
Encoding Rule	EA.LESY.5kWh-16A0
Cycle Life	≥6000 Times 25 °C
Mounting	Modular Stacking/Ground
Protection	BMS/Software/Hardware/Fuse
BMS Communication Protocol	RS485; CAN
Cooling Method	Natural Cooling
Operating Temperature Range	-20~58 °C
Optimum Operating Temperature Range	25±2 °C
Heating Up during Charging/ Discharging	Charging: T<5 °C, heating up to 20 °C±2 °C; Discharging: T<-5 °C, heating up to 5 °C±2 °C
Storage Temperature	0~40 °C ≤1 Year
Humidity	0~100% Relative Humidity
Noise Level	≤25 dB
Protection Rating	IP66
Warranty	10 Years

### Applicable Standards

**Safety:** IEC 62619:2022; ISO 13849; IEC/EN 62040-1  
**EMC:** IEC 61000-6-1; IEC 61000-6-3



## 10KWH+H (High Voltage) Household Energy Storage Battery

Model	Battery Quantity	Usable Energy	Dimensions (LxWxH)	Weight	Max. Discharge Power
10KWH+H	1	10.54 kWh	660x270x608 mm	90 kg	3.3 kW
10KWH+H2	2	21.08 kWh	640x270x1008mm	175 kg	6.6 kW
10KWH+H3	3	31.62 kWh	640x270x1408 mm	260 kg	9.9 kW
10KWH+H6	6	63.24 kWh	(640x270x1408mm)x2	520 kg	19.8 kW
10KWH+H9	9	94.86 kWh	(640x270x1408mm)x3	780 kg	29.7 kW

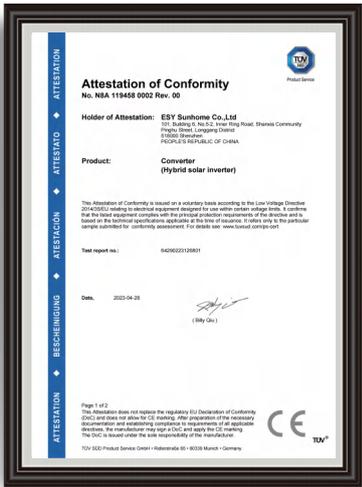
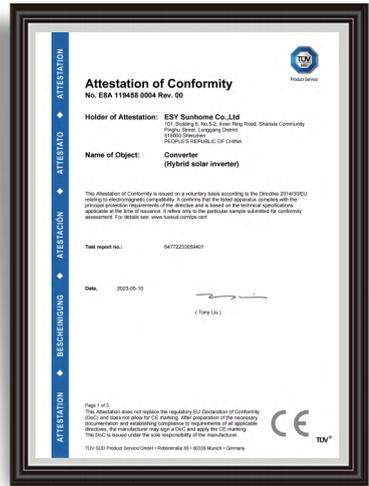
Parameters	
Rated Operating Voltage	450 Vd.c.
Working Voltage Range	380 Vd.c.~560 Vd.c.
Depth of Discharge	98%
Discharging Efficiency	≥97%
Battery Type	IFpP
Measuring Accuracy	≤2%
Cycle Life	≥6000 Times 25 °C
Optimum Operating Temperature Range	25±2 °C
Operating Temperature Range	-20~58 °C
Heating Up during Charging/ Discharging	Charging: T<5 °C, heating up to 15 °C±2 °C; Discharging: T<5 °C, heating up to 15 °C±2 °C
Storage Temperature	-20 °C~40 °C ≤ 1 Year
Protection Rating	IP66
Humidity	0~100% Relative Humidity
Mounting	Modular Stacking/Ground
Protection	BMS/Software/Hardware/Fuse
BMS Communication Protocol	RS485; CAN
Cooling Method	Natural Cooling
Warranty	10 Years

### Applicable Standards

**Safety:** IEC 62619:2022; ISO 13849; IEC/EN 62040-1  
**EMC:** IEC 61000-6-1; IEC 61000-6-3

# Certificates







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## ESYsunhome CO.,LTD



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