ESYSUNHOME

ESY SUNHM

CLEAN ENERGY COUNCIL MEMBER

SMART ENERGY COUNCIL PLATINUM MEMBER

ESY SUNHOME AUSTRALIA PTY LTD

3/52-60 Roberts Road Greenacre NSW 2190
Tel: +61 2 9166 7642
Email: info-au@esysunhome.com.au
Web: www.esysunhome.com

ESYsunhome Co., Ltd

Mission

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

Core Values

Collaborative Spirit

Down-to-Earth Practicality

Forward-thinking Innovation

Rigorous Scientific Craftsmanship

Delivering Value for Clients

Making a Positive Impact on Society

ABOUT ESYSUNHOME

ESYSUNHOME is a premium provider of advanced energy solutions for residential and business, specializing in energy storage systems, battery products, and Virtual Power Plants (VPP). With over two decades of expertise in Battery Management System (BMS) solutions and a top-tier research and development team, the company is dedicated to driving innovation for a sustainable future. Supported by a comprehensive global sales and service network, ESYSUNHOME is the partner of choice for customers seeking to advance their transition to a green energy future.

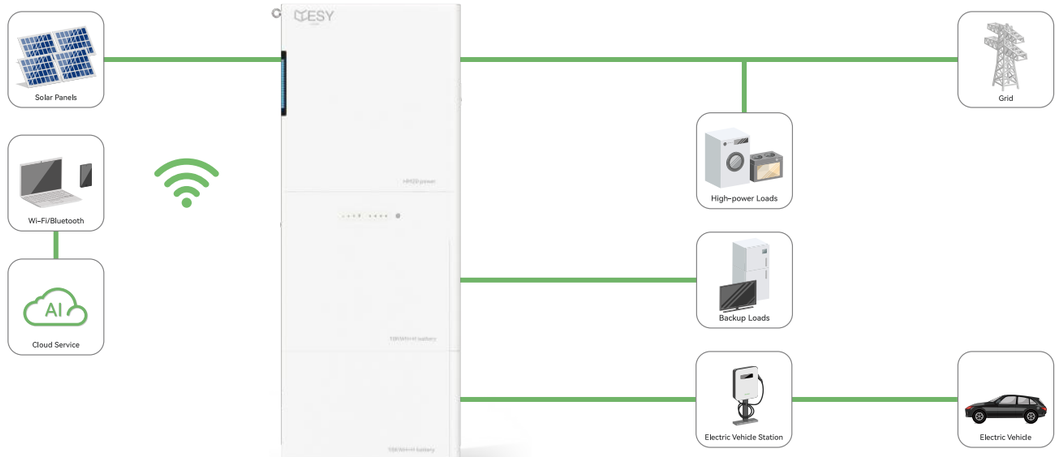
PARTNERS

Empowering Enterprises with Cutting-Edge Battery Solutions.

ESYSUNHOME ENERGY STORAGE SOLUTIONS

ESYSUNHOME is an innovation-driven provider of comprehensive new energy solutions, specializing in photovoltaic systems, energy storage, charging stations, and smart energy systems. Supported by outstanding manufacturing and strong R&D capabilities, the company has built a full-spectrum technological ecosystem covering IoT, power supply, batteries, and charging infrastructure.

With 24/7 localized service, ESYSUNHOME meets diverse residential, commercial, and industrial needs while offering advanced solutions like Virtual Power Plants (VPP) and grid safety management, driving efficient green energy use and supporting the global energy transition.



Prime Solutions

- Modular Design: Adapts to various scenarios.
- Stackable Installation: Quick setup and debugging.
- Simplified Wiring: Cuts costs and labor.

Streamlined Operations and Maintenance

- IP66 Protection: Ensures outdoor use and easy maintenance.
- All-Weather Protection: Maintains functionality in extreme cold.
- Remote Diagnostics: Simplifies troubleshooting with one-click.

INNOVATIVE TECHNOLOGIES

Smart Innovation
Modular Design; Flexible Integration; Stackable Modules without Wiring; Smart Capability Low-Temperature Heating Function; IP66 Waterproofing.

Optimized Cloud Integration
Seamless cloud integration with DNSPs enables precise control and scheduling of inverters, ensuring the stable operation of photovoltaic storage systems and maintaining grid quality and safety.

Advanced Protection Technology
With five layers of protection, the battery system ensures exceptional safety in any environment, offering reliability for both residential and industrial applications.

Energy Management
In-house technology integrates with local VPP platforms to optimize energy production, distribution, and grid services.

Bidirectional High-Speed Charging Station

A charger that provides fast charging and supports energy transfer from the vehicle to the grid (V2G) and home (V2H). It features high-power output and smart management, allowing the vehicle to act as a mobile battery, supplying power to homes or the grid when not in use.

Modular Power Station

Utilizes HM series storage systems in parallel to boost power and capacity. It ensures efficient installation, low maintenance costs, and is ideal for large buildings like malls, supermarkets, and office tower, providing flexible and scalable power solutions.

Large-Scale Power Station

Provides instant power support by quickly responding to grid frequency changes, stores energy during low demand, and releases it during peak times. This balances supply and demand, enhances system efficiency, and achieves effective, eco-friendly energy management.

HM5/HM6 ALL-IN-ONE RESIDENTIAL ENERGY STORAGE SYSTEM (SINGLE PHASE)

Smart Protection with Built-in Fire Extinguisher

Class-leading Charge & Discharge Speed

IP66-rated Enclosures

Modular Design with Scalable Capacity

24/7 Monitoring System

Premium Local Support & 10-Year Warranty

Temperature Resistance

VPP-ready with $20M Public Liability Insurance

Model	HM5/HM6-05	HM5/HM6-10	HM5/HM6-15	HM5/HM6-20	HM5/HM6-25	HM5/HM6-30
Battery Quantity	1	2	3	4	5	6
Max. Output Power	5 / 6 kW	5 / 6 kW	5 / 6 kW	5 / 6 kW	5 / 6 kW	5 / 6 kW
Battery Capacity	5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh	25.60 kWh	30.72 kWh
Usable Capacity	4.86 kWh	9.73 kWh	14.59 kWh	19.46 kWh	24.32 kWh	29.18 kWh
Dimensions (LxWxH)	600x305x778 mm	600x305x998 mm	600x305x1218 mm	600x305x1438 mm	600x305x1658 mm	600x305x1878 mm
Weight	93 kg	143 kg	193 kg	243 kg	293 kg	343 kg

Parameters	ESYSUNHOME HM5	ESYSUNHOME HM6
Max. Efficiency (PV to Grid)	97.8%	
MPPT Efficiency	99.9%	
Install Method	Modular Stacking/Ground	
Communication	WiFi/GPRS (Optional)/USB/RS485/CAN	
Application Software Support System	iOS/Android/Web	
Cooling Method	Natural Cooling	
Operating Temperature Range	-25~60 ℃	
Relative Humidity	0~100% Relative Humidity	
Noise Level at 1m	≤25 dB	
Ingress Protection Rating	IP66	
Warranty	120 months	

PV Input	ESYSUNHOME HM5	ESYSUNHOME HM6
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.	

Battery	ESYSUNHOME HM5	ESYSUNHOME HM6
Battery Type	LiFePO4	
Cycle Life	≥6000 Cycles 25 ℃	
Rated Voltage	51.2 Vd.c.	
Voltage Range	40.8 Vd.c.~57.6 Vd.c.	
Short Circuit Current	313 Ad.c.	
Rated Charge Current	100 Ad.c.	
Rated Discharge Current	120 Ad.c.	

AC Grid	ESYSUNHOME HM5	ESYSUNHOME HM6
Rated Input Power	5000 W	6000 W
Rated Output Power	5000 W	6000 W
Max. Output Apparent Power	5000 VA	6000 VA
Rated Voltage	230 Va.c. L/N/PE	
Input Voltage Range	184 Va.c.~276 Va.c.	
Rated Current	21.74 Aa.c.	26.09 Aa.c.
Rated Output Frequency	50 Hz	
Power Factor Range	0.8 leading~0.8 lagging	

Backup	ESYSUNHOME HM5	ESYSUNHOME HM6
Rated Output Power	5000 W	6000 W
Max. Apparent Output Power	5000 VA	6000 VA
Rated Output Voltage	230 Va.c. L/N/PE	
Rated Output Current	21.74 Aa.c.	26.09 Aa.c.
Rated Output Frequency	50 Hz	
Waveform	Sine Wave	

Protection	ESYSUNHOME HM5	ESYSUNHOME HM6
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 DC); III (for AC)	
Battery Reverse Polarity Protection	Yes	

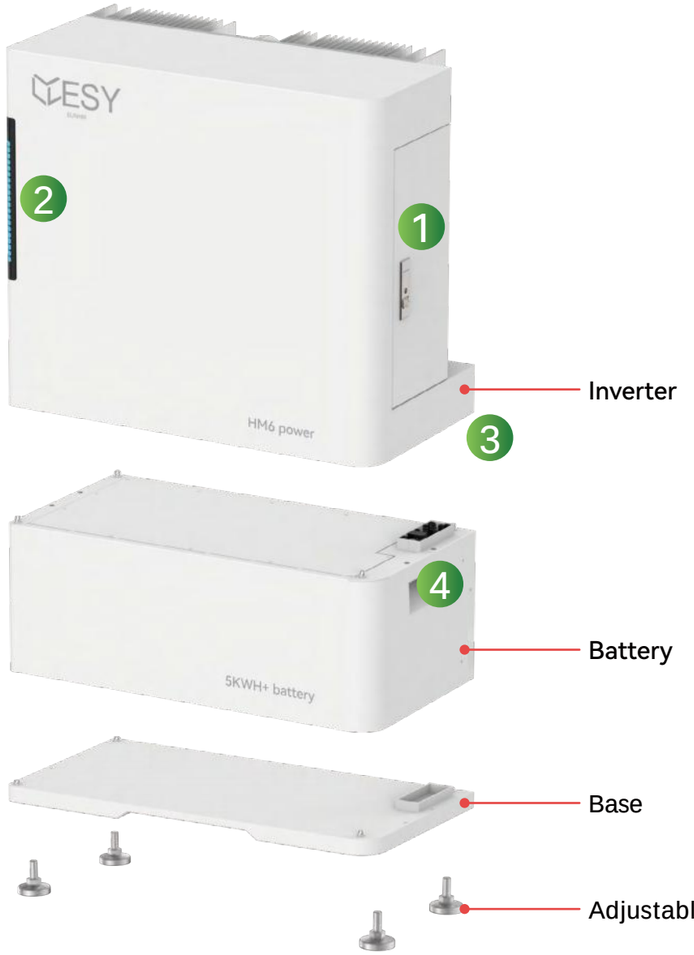
* Specifications may change without prior notification.

Applicable Standards

Grid Connection:
AUS: AS 4777.2; CEC; **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;
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

HM5/HM6

RESIDENTIAL ENERGY STORAGE SYSTEM (SINGLE PHASE) - COMPONENT OVERVIEW



HM5/6 Multiple Batteries Overview

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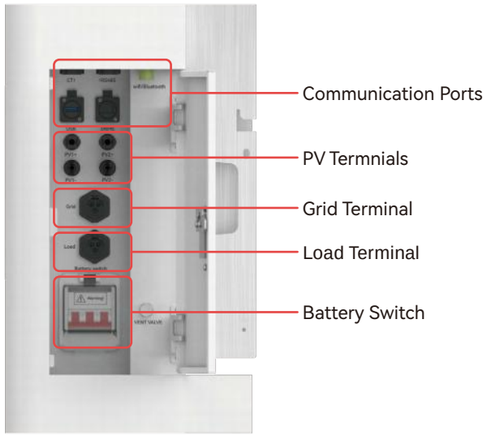

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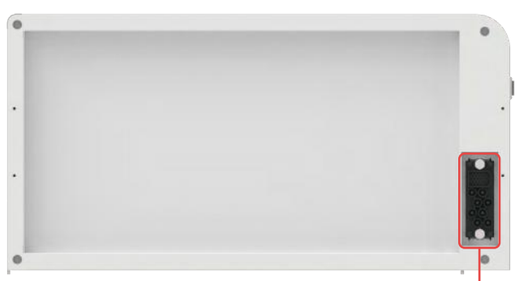

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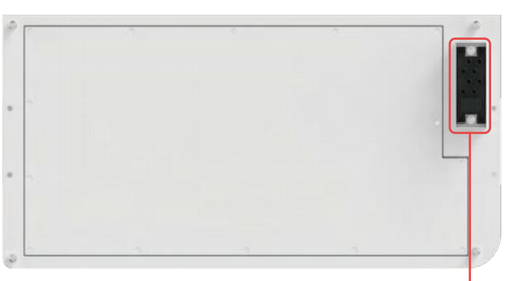


HM5-MAX/HM10 ALL-IN-ONE RESIDENTIAL ENERGY STORAGE SYSTEM (SINGLE PHASE)

Smart Protection with Built-in Fire Extinguisher

Class-leading Charge & Discharge Speed

IP66-rated Enclosures

Modular Design with Scalable Capacity

24/7 Monitoring System

Premium Local Support & 10-Year Warranty

Temperature Resistance

VPP-ready with $20M Public Liability Insurance

Model	HM5-MAX/HM10-05	HM5-MAX/HM10-10	HM5-MAX/HM10-15	HM5-MAX/HM10-20	HM5-MAX/HM10-25	HM5-MAX/HM10-30
Battery Quantity	1	2	3	4	5	6
Rated Output Power (off-grid mode)	7.168 kW	7.168 kW	7.168 kW	7.168 kW	7.168 kW	7.168 kW
Battery Capacity	5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh	25.60 kWh	30.72 kWh
Usable Capacity	4.86 kWh	9.73 kWh	14.59 kWh	19.46 kWh	24.32 kWh	29.18 kWh
Dimensions (LxWxH)	600x305x908 mm	600x305x1128 mm	600x305x1348 mm	600x305x1568 mm	600x305x1788 mm	600x305x2008 mm
Weight	113 kg	163 kg	213 kg	263 kg	313 kg	363 kg

Parameters	HM5-MAX	HM10
Max. Efficiency (PV to Grid)	97.80%	
MPPT Efficiency	99.90%	
Install Method	Floor mounting/Wall mounting	
Communication	WiFi/Ethernet/GPRS (optional)/USB/RS485/CAN	
Application Software Support System	iOS/Android/Web	
Cooling Method	Intelligent air cooling	
Operating Temperature Range	-25 ℃- +60 ℃	
Relative Humidity	0-100% Relative Humidity	
Noise Level at 1m	≤55 dB	
Ingress Protection Rating	IP66	
Warranty	120 months	

PV Input	ESYSUNHOME HM5-MAX	ESYSUNHOME HM10
Max. Input Power	18 kW	
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	30 Ad.c./30 Ad.c.	
Max. Short Circuit Current	40 Ad.c./40 Ad.c.	

Battery	ESYSUNHOME HM5-MAX	ESYSUNHOME HM10
Battery Type	LiFePO4	
Cycle Life	≥6000 Cycles 25 ℃	
Rated Voltage	51.2 Vd.c.	
Voltage Range	40.8 Vd.c.~57.6 Vd.c.	
Rated Charge Current	140 Ad.c.	
Rated Discharge Current	140 Ad.c.	

AC Grid	ESYSUNHOME HM5-MAX	ESYSUNHOME HM10
Rated Input Power	9.9 kW	
Rated Output Power	5 kW	9.9 kW
Max. Output Apparent Power	5 kVA	9.9 kVA
Rated Voltage	230 Va.c. L/N/PE	
Rated Input/Output Current	43.4 Aa.c./21.7 Aa.c.	43.4 Aa.c./43.4 Aa.c.
Rated Output Frequency	50 Hz	
Power Factor Range	0.8 leading~0.8 lagging	

Backup	ESYSUNHOME HM5-MAX	ESYSUNHOME HM10
Rated Output Power	10 kW	
Max. Apparent Output Power	10 kVA	
Rated Output Voltage	230 Va.c. L/N/PE	
Rated Output Current	43.5 Aa.c.	
Rated Output Frequency	50 Hz	
Waveform	Sine Wave	

Protection	ESYSUNHOME HM5-MAX	ESYSUNHOME HM10
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 DC); III (for AC)	
Battery Reverse Polarity Protection	Yes	

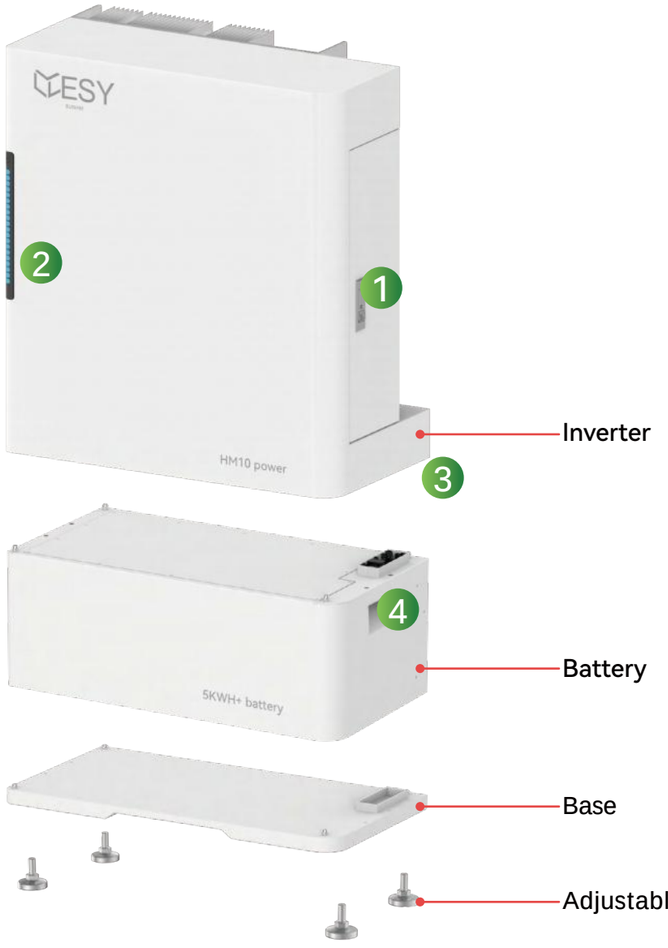
* Specifications may change without prior notification.

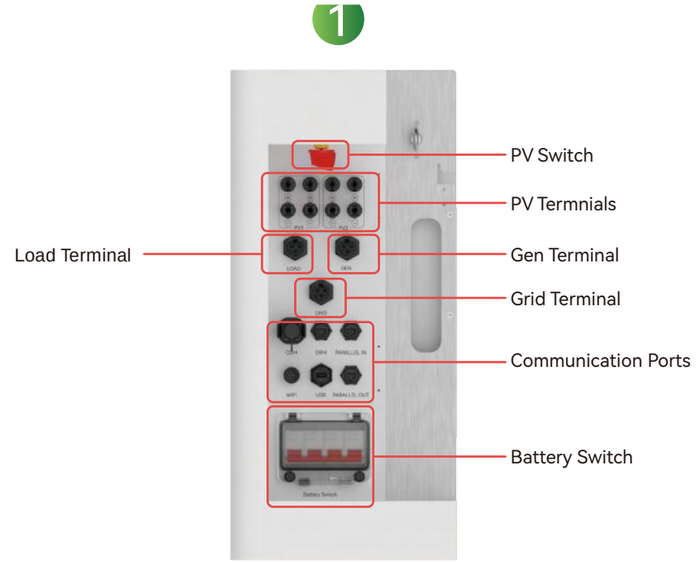
Applicable Standards

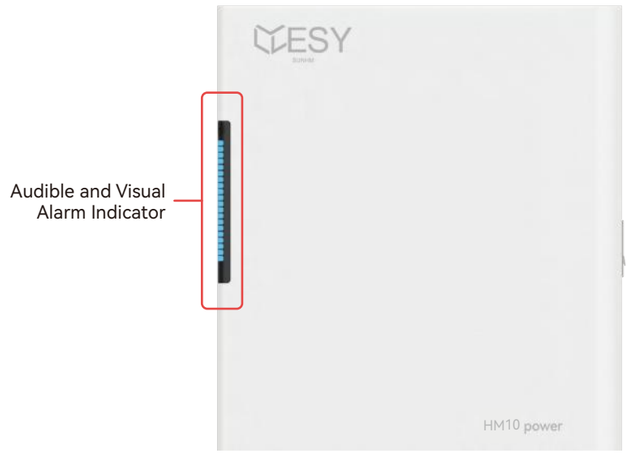
Grid Connection:
AUS: AS 4777.2; CEC
Safety:
Inverter: IEC 62109-1; IEC 62109-2; **Battery:** IEC 62619:2022; ISO 13849; IEC/EN 62040-1; VDE 2510-050:2017
EMC:
IEC 61000-6-1; IEC 61000-6-3

HM5-MAX/HM10

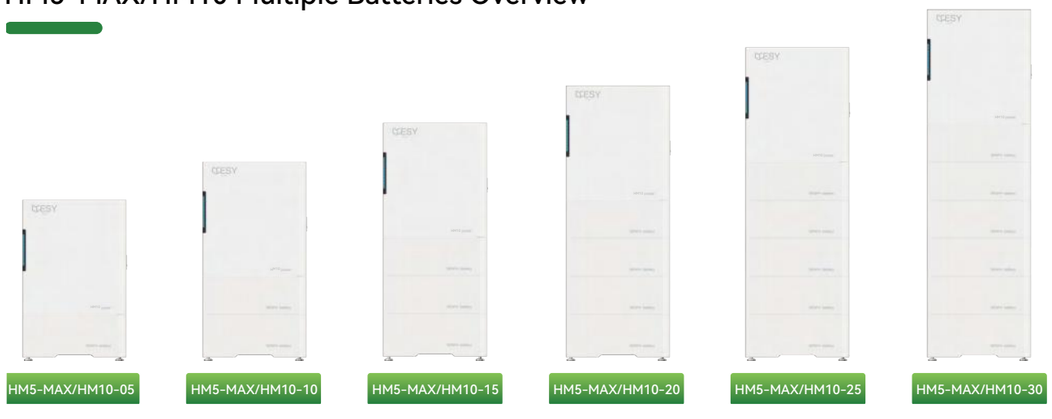
RESIDENTIAL ENERGY STORAGE SYSTEM (SINGLE PHASE) - COMPONENT OVERVIEW

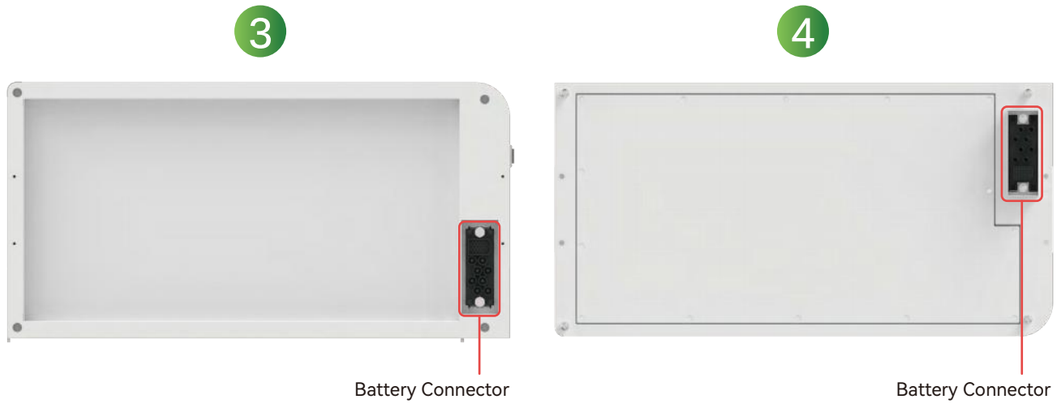






HM5-MAX/HM10 Multiple Batteries Overview





HM10-H/HM15/HM20 ALL-IN-ONE RESIDENTIAL ENERGY STORAGE SYSTEM (3-PHASE)

Smart Protection with Built-in Fire Extinguisher

Class-leading Charge & Discharge Speed

IP66-rated Enclosures

Modular Design with Scalable Capacity

24/7 Monitoring System

Premium Local Support & 10-Year Warranty

Temperature Resistance

VPP-ready with $20M Public Liability Insurance

Model	HM10-H/15/20-20	HM10-H/15/20-30	HM10-H / 15 / 20-40	HM10-H/15/20-50
Battery Capacity	21.10 kWh	31.65 kWh	42.20 kWh	52.80 kWh
Rated Output Power (off-grid mode)	6.6 kW	9.9 kW	10 kW/13.2 kW/13.2 kW	10 kW/15 kW/16.5 kW
Dimensions (LxWxH)	660x270x1725 mm	660x270x2131 mm	660x270x1725 mm +660x270x1042 mm	660x270x2131 mm +660x270x1042 mm
Weight	262.5 kg/266.6 kg/266.6 kg	358.75 kg/376.35 kg/376.35 kg	478.2 kg/482.3 kg/482.3 kg	574.45 kg/578.55 kg/578.55 kg

Model	HM10-H/15/20-60	HM10-H/15/20-70	HM10-H/15/20-80	HM10-H/15/20-90
Battery Capacity	63.30 kWh	73.85 kWh	84.40 kWh	94.95 kWh
Rated Output Power (off-grid mode)	10 kW/15 kW/19.8 kW	10 kW/15 kW/20 kW	10 kW/15 kW/20 kW	10 kW/15 kW/20 kW
Dimensions (LxWxH)	660x270x2131 mm +660x270x1448 mm	660x270x2131 mm +660x270x1042 mm*2	660x270x2131 mm +660x270x1448 mm +660x270x1042 mm	660x270x2131 mm +660x270x1448 mm*2
Weight	670.7 kg/674.8 kg/674.8 kg	787.75 kg/791.85 kg/791.85 kg	884 kg/ 888.1 kg/888.1 kg	980.25 kg/984.35 kg/984.35 kg

Parameters	ESYSUNHOME HM10-H	ESYSUNHOME HM15	ESYSUNHOME HM20
Max. Efficiency (PV to Grid)		98.20%	
MPPT Efficiency		99.90%	
Install Method		Floor mounting/Wall mounting	
Communication		WiFi/GPRS (Optional)/USB/RS485/CAN	
Application Software Support System		iOS/Android/Web	
Cooling Method	Natural cooling	Intelligent air cooling	Intelligent air cooling
Operating Temperature Range		-25 ℃~60 ℃	
Relative Humidity		0 - 100%	
Noise Level at 1m		≤45 dB	
Ingress Protection Rating		IP66	
Warranty		120 months	
PV Input	**ESYSUNHOME HM10-H**	**ESYSUNHOME HM15**	**ESYSUNHOME HM20**
Max. Input Power	20 kW	30 kW	30 kW
Rated Input Voltage		650 Vd.c.	
Max. Input Voltage		1000 Vd.c.	
MPPT Voltage Range		160 Vd.c. - 950 Vd.c.	
Min. Operating Voltage		160 Vd.c.	
Starting Voltage		180 Vd.c.	
Max. Short Circuit Current	24 Aa.c./24 Aa.c.	24 Aa.c./48 Aa.c.	24 Aa.c./48 Aa.c.
MPPT		2	
Battery	**ESYSUNHOME HM10-H**	**ESYSUNHOME HM15**	**ESYSUNHOME HM20**
Battery Type		LiFePO4	
Cycle Life		≥6000 Cycles 25 ℃	
Rated Operating Voltage		450 Vd.c.	
Voltage Range		380 Vd.c.~560 Vd.c.	
Protection		BMS/Software/Hardware/Fuse	
Input and Output (Grid)	**ESYSUNHOME HM10-H**	**ESYSUNHOME HM15**	**ESYSUNHOME HM20**
Rated Input/Output Voltage		400 Va.c. 3L/N/PE	
Rated Input/Output Frequency		50 Hz	
Rated Input/Output Power	10 kW/9.9 kW	15 kW/15 kW	20 kW/20 kW
Rated Input/Output Apparent Power	10 kVA/9.9 kVA	15 kVA/15 kVA	20 kVA/20 kVA
Max. Input/Output Apparent Power	15 kVA/11 kVA	22.5 kVA/16.5 kVA	30 kVA/22 kVA
Rated Input/Output Current	14.4 Aa.c./14.4 Aa.c. @400 Va.c.	21.7 Aa.c./21.7 Aa.c. @400 Va.c.	28.9 Aa.c./28.9 Aa.c. @400 Va.c.
Max. Input/Output Current	21.7 Aa.c./14.4 Aa.c. @400 Va.c.	32.6 Aa.c./23.8 Aa.c. @400 Va.c.	40.0 Aa.c./31.8 Aa.c. @400 Va.c.
Power Factor Range		0.8 leading~0.8 lagging	
Backup	**ESYSUNHOME HM10-H**	**ESYSUNHOME HM15**	**ESYSUNHOME HM20**
Rated Output Voltage		400Va.c. 3L/N/PE	
Rated output frequency		50/60 Hz	
Rated output power (on grid mode)	10 kW	15 kW	20 kW
Max. apparent output power (on grid mode)	10 kVA	15 kVA	20 kVA
Max. output current	14.4 Aa.c. @400 Va.c.	21.7 Aa.c. @400 Va.c.	29.0 Aa.c. @400 Va.c.
THDV		≤ 3% (linear load)	
Overload capacity		105% (≤60 s)/120% (≤30 s)	
Switching time		≤10 ms	
Protection	**ESYSUNHOME HM10-H**	**ESYSUNHOME HM15**	**ESYSUNHOME HM20**
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 DC); III (for AC)	
Battery Reverse Polarity Protection		Yes	

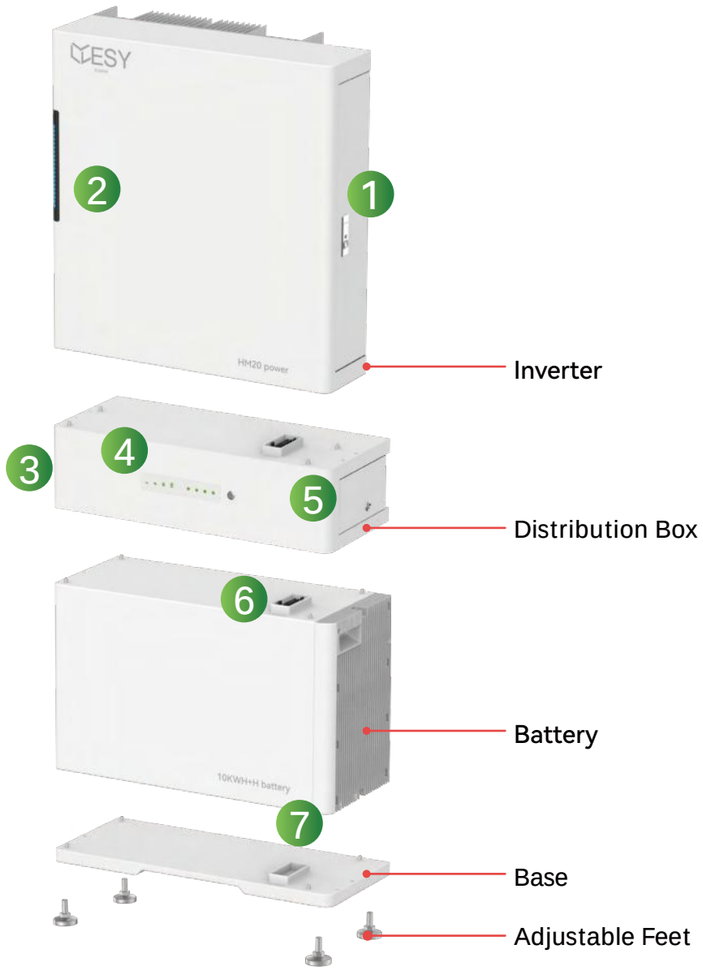
* Specifications may change without prior notification.

Applicable Standards

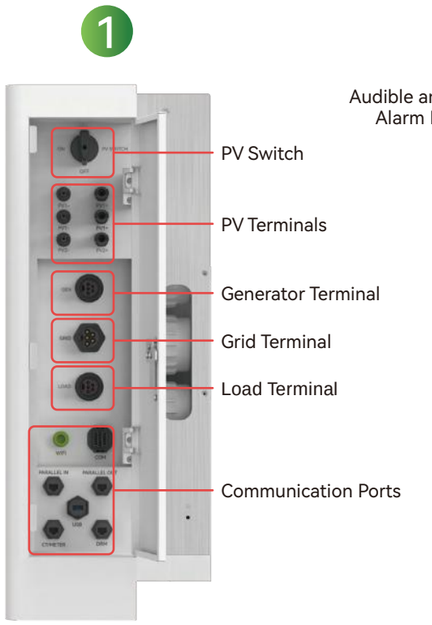
AS 4777.2; IEC 62109-1; IEC 62109-2 IEC 62619:2022; IEC 61000-6-1; IEC 61000-6-3

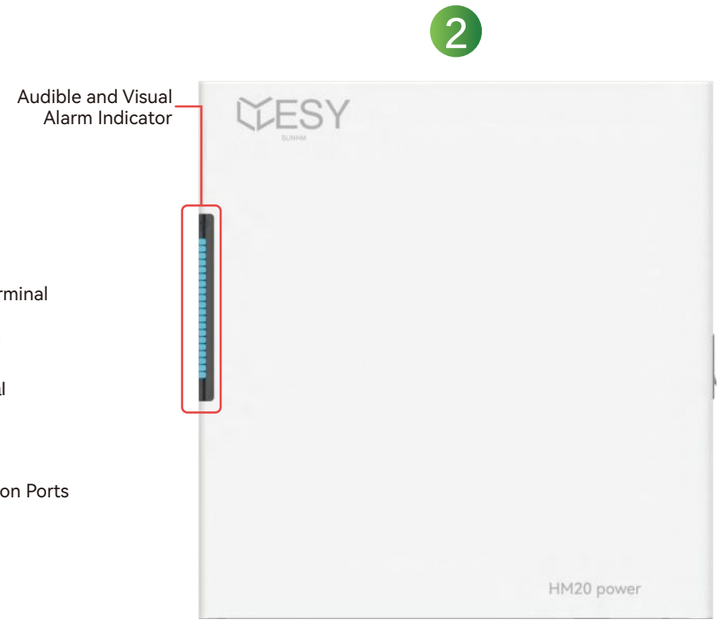
HM10-H/HM15/HM20

RESIDENTIAL ENERGY STORAGE SYSTEM (3-PHASE) - COMPONENT OVERVIEW

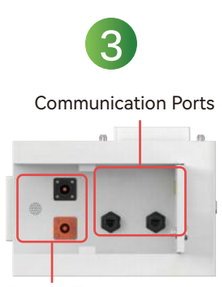


HM10-H/HM15/HM20 Multiple Batteries Overview

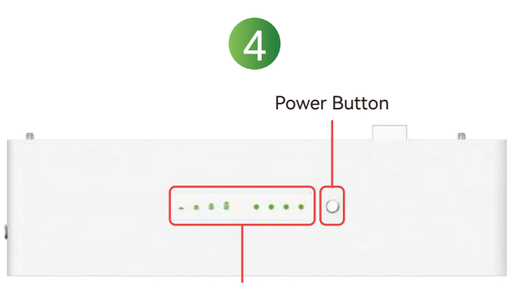




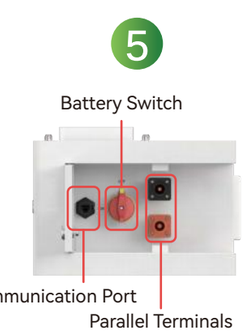
3 Communication Ports

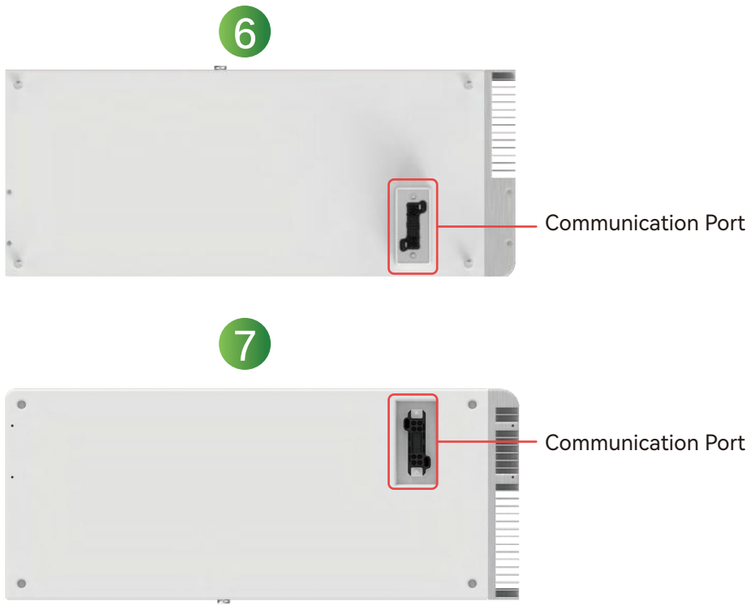


4 Power Button



5 Battery Switch





ES130-261 INDUSTRIAL AND COMMERCIAL PHOTOVOLTAIC ENERGY STORAGE SYSTEM
ES130-261 INDUSTRIAL AND COMMERCIAL ENERGY STORAGE SYSTEM

- Safe and Reliable Construction
- IP65 Waterproof Protection
- 24/7 Monitoring System
- Integrated All-in-One System with Parallel Support
- Advanced Thermal Management System
- AI-Driven Intelligence for Optimal Performance

Model	ES130-261 Industrial and Commercial Photovoltaic Energy Storage System	ES130-261 Industrial and Commercial energy storage
Rated Power	130 kW	130 kW
Rated Capacity	261 kWh	261 kWh
Rated Charge/Discharge Power	130 kW	130 kW
Dimensions (Width * Length * Height)	1320x1350x2050 mm	1000x1350x2050 mm
Weight	2T	2.1T
Protection Level	IP65	IP65
Equipment Cooling Method	Air Cooling	Air Cooling
Battery Cooling Method	Liquid Cooling	Liquid Cooling
Grid Connection	Yes	Yes
PV Input	Yes	/

PV Input Parameters	ES130-261 Industrial and Commercial Photovoltaic Energy Storage System	ES130-261 Industrial and Commercial energy storage
Maximum Input Power	260 kW	/
Maximum Input Voltage	1000 Vd.c.	/
Rated Input Voltage	650 V	/
Start Voltage	220 Vd.c.	/
Minimum Operating Voltage	200 Vd.c.	/
MPPT Operating Voltage Range	200~1000 Vd.c.	/
MPPT Power	260 kW	/
Quantity of MMPT	6	/
Quantity of Strings per MPPT Channel	4	/
Maximum Current Per MPPT	70 A	/
Maximum Short Circuit Current Per MPPT	75 A	/

AC Output Parameters	
Wiring Configuration	3L/N/PE
Rated Output Power	130 kW
Maximum Output Apparent Power	143 kVA
Rated Output Voltage	400 Va.c.
Output Voltage Range	320~480 Va.c.
Rated Output Frequency	50 Hz/60 Hz
Grid Frequency Range	45 Hz~55 Hz/55 Hz~65 Hz
Rated Output Current	188 Aa.c. (@400 Va.c.)
Maximum Output Current	206 Aa.c. (@400 Va.c.)
Total Harmonic Distortion (THD)	<3% (at Rated Power)
Output Current DC Component	<0.5% In
Power Factor	>0.99 (at Rated Power)
Power Factor Adjustment Range	0.8 Leading ~ 0.8 Lagging

Battery Parameters	
Battery Type	IFpP
Battery Pack Configuration	1P 52S
Quantity of Battery Packs	5
Rated Energy	261 kWh
Rated Power	135 kW
Maximum Output Power	145 kW
Rated Voltage	832 V
Voltage Range	728~936 Vd.c.
Rated Current	160 Ad.c.
Maximum Charge Current	160 Ad.c.
Maximum Discharge Current	177 Ad.c.
Battery Charging Protocol	BMS Adaptive System
Cycle Life	≥6000 Times (25 ℃, 0.5 P)
Voltage and Current Accuracy	1%

Other Parameters	
Operating Temperature Range	-20 ℃ to 50 ℃ (Derating above 45 ℃)
Storage Temperature	-30 ℃-60 ℃
Operating Humidity Range	0-95% (Non-condensing)
Operating Altitude	3000 m (Derating above 2000 m)
Isolation Method	Transformerless
Topology	Non-isolated
Protection	Anti-Backflow, Anti-Islanding, Over-Temperature Protection, Over-Current Protection, Over-Voltage Protection, Short Circuit Protection, Battery Reverse Polarity Protection, Grid Phase Reversal Protection, Surge Protection, Ground Fault Detection, Smoke Monitoring, Temperature and Humidity Monitoring, Water Leak Detection, Lightning Protection Device
Communication	Ethernet/4G/Wi-Fi (Optional)
Communication Interface	CAN/RS485/USB
Communication Protocol	Modbus TCP/CAN/RS485
Energy Management	Yes
Remote Control	Yes (Northbound Communication)
Human-Machine Interface	LCD/LED/Web
Three-Phase Unbalanced Input	Yes
DI/DO Interface (Dry Contact)	Integrated (4 Groups)
Installation	Floor-Mounted
Cable Entry Method	Bottom Entry
Fire Protection	Smoke Detector Sound Alarm Gas Fire Suppression/Deluge Water Fire Suppression System
Warranty	5 Years (Extendable)

Efficiency	
DC Side Efficiency	0.985
Maximum Efficiency	0.99
European Efficiency	0.985

Distribution Cabinet Parameters (Optional)			
Mains Input Power	260 kW	435 kW	875 kW
Mains Input Current	400 Aa.c. (@400 Va.c.)	630 Aa.c. (@400 Va.c.)	1260 Aa.c. (@400 Va.c.)
Grid Rated Power	130 kW	250 kW	500 kW
Grid Maximum Power	143 kVA	275 kVA	550 kVA
Grid Rated Current	188 Aa.c. (@400 Va.c.)	361 Aa.c. (@400 Va.c.)	722 Aa.c. (@400 Va.c.)
Grid Maximum Current	206 Aa.c. (@400 Va.c.)	397 Aa.c. (@400 Va.c.)	794 Aa.c. (@400Va.c.)
Load Power	130 kW	250 kW	500 kW
Load Rated Current	188 Aa.c. (@400 Va.c.)	361 Aa.c. (@400 Va.c.)	722 Aa.c. (@400 Va.c.)
Generator Power	175 kW	435 kW	875 kW
Generator Rated Current	250 Aa.c.(@400 Va.c.)	630 Aa.c. (@400 Va.c.)	1260 Aa.c. (@400 Va.c.)

Certification Standards

Grid Connection Standards:
VDE 0126, EN50549, DIN VDE V 0124-100:2020, VDE-AR-N 4105:2018,PPDS,CEI 0-21,NC RFG+PTPiREE,NRS 097-2-1
Safety Stardard:
System: IEC/EN 62109-1/-2, AS62109,IEC 62477； **Battery:** IEC/EN 62619 2022,IEC/EN 63056,ISO 13849,IEC/EN 62040-1,IEC/EN 60730-1
EMC:
System: EN61000-6-1 EN61000-6-3； **Battery:** EN61000-6-1/-2/-3/-4
Transportation:
UN38.3 MSDS

System Composition: 520 kW/1044 kWh Photovoltaic/Energy Storage System

System Composition: 130 kW/1044 kWh Photovoltaic/Energy Storage System

Company Layout

CHINA

Headquarters

AUSTRALIA
Sydney Office

ITALY
Genoa Office

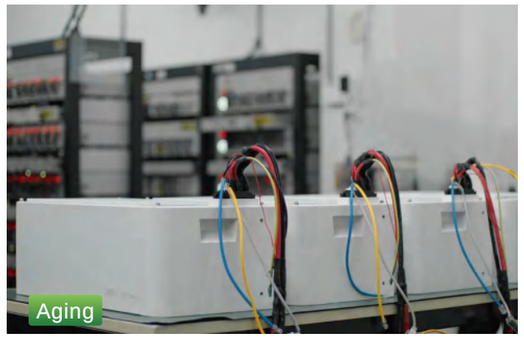
GERMANY
Munich Office

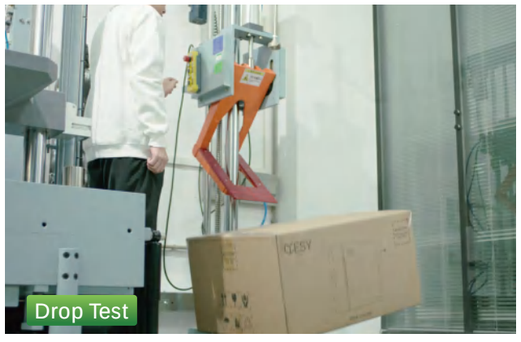
USA
Los Angeles Office

Advanced Production Management

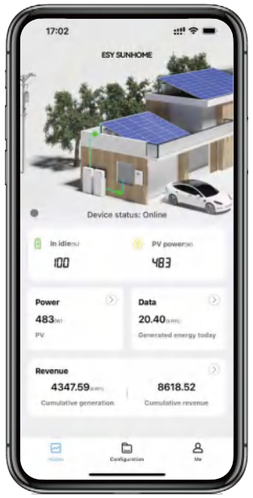
ESY SUNHOME operates from its dedicated production facility, featuring a comprehensive product manufacturing chain. Our integrated management systems, including ERP, MES, and WMES, ensure a seamless and high-precision approach to information management across production, material traceability, and warehousing processes.

Quality Control





Every product model undergoes meticulous testing, encompassing aging, drop, waterproof, radiation, and other assessments, prior to shipping, ensuring the utmost quality, performance, and safety of the product. ESY SUNHOME maintains a steadfast commitment to strict quality control measures throughout the entire production process.

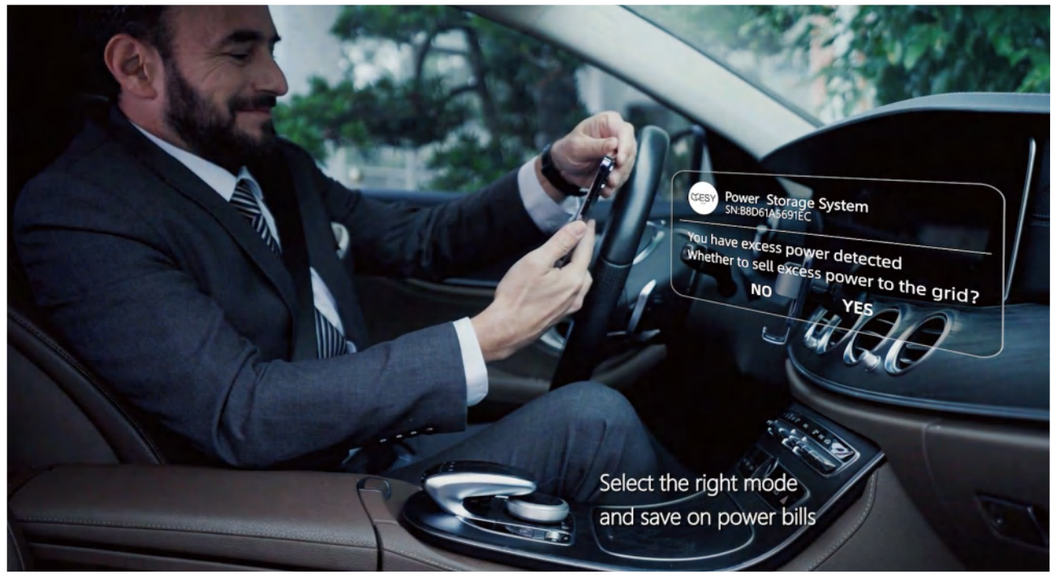


ESY SUNHOME APP

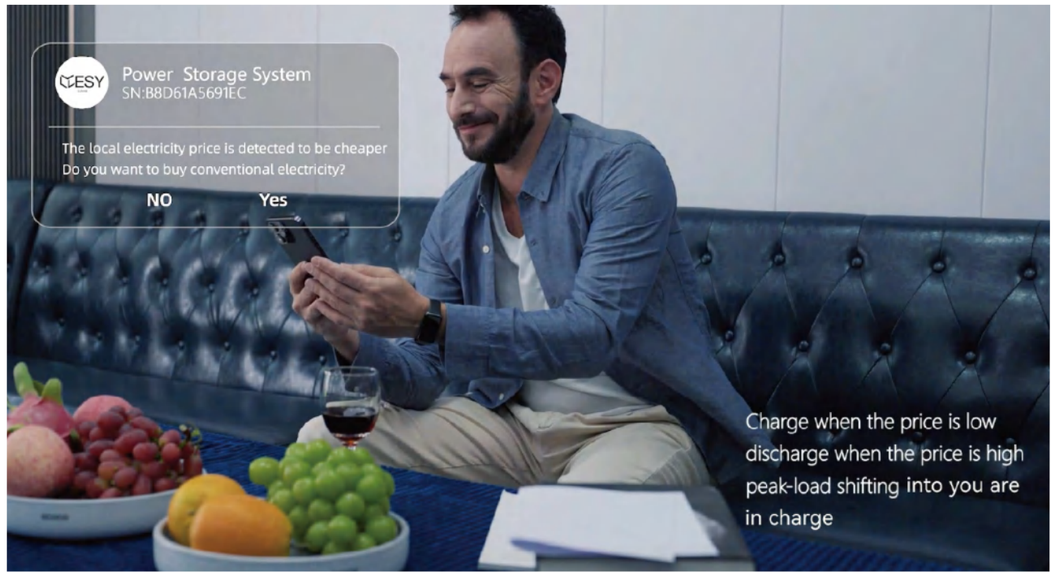
The ESY SUNHOME APP is a comprehensive cloud-based energy storage platform our IoT R&D team meticulously developed. Our commitment to excellence stems from our goal to provide secure, intelligent energy storage solutions for various storage products, ensuring user-friendly simplicity, operational convenience, and enhanced quality of life.

ESYSUNHOME App and Data-Driven Intelligence

The ESY SUNHOME APP provides advanced features for comprehensive control and monitoring of energy storage systems. Unlike traditional dashboards, it offers a seamless interface for real-time dynamic analysis, ensuring effortless operation. Intelligent charts track power generation and revenue, optimizing financial gains through real-time monitoring of electricity purchase and sale data. The APP also includes a proactive safety warning system that promptly alerts service providers in the event of any anomalies, enabling swift maintenance.



ESYSUNHOME extensively leverages advanced intelligent technology in managing energy storage products. We implement rapid deployment and on-demand equipment expansion based on our proprietary IoT technology and cloud-native edge computing architecture, ensuring flexible, stable, and reliable system responses.



All products under the brand are designed to support Data-Driven Intelligence. This feature, combined with advanced big data analytics, enables the optimization of real-time energy usage strategies. By analyzing factors such as dynamic electricity prices and photovoltaic power generation, energy efficiency is maximized. User data on electricity usage habits and lifestyle is collected in strict compliance with relevant laws and regulations, allowing for the delivery of customized operation modes and lifestyle recommendations. This approach not only enhances the quality of life but also improves energy utilization efficiency.

Installation Cases

Installation in Australia

Hotel (Small Business)

Installation in China

Installation in Belgium

Installation in Australia

Dairy Farm (Small Business)

Installation in Australia

Residential

Installation in Italy

Installation in Australia

Installation in Australia

Installation in Germany

Large-Scale Power Station

Installation in Antarctica

ONE FITS ALL

The HM series features a modular design, offering exceptional flexibility and adaptability across all product configurations. With easy stacking and quick installation, the system requires no wiring or debugging, allowing for immediate use. Starting from 5kWh for the single-phase systems and 10kWh for the three-phase systems, the HM series provides precise capacity matching for a wide range of residential, commercial, and industrial applications. The products are suitable for all scenarios, from small-scale installations to large-scale power station projects. They support all gridworks and are designed to operate efficiently in all locations, meeting the demands of diverse environments and requirements.

Safety Stardard, EMC, Grid Connection Standards

Transportation

United Nations Authorised Supplier

Global Footprint and Local Support Team