



TAKE THE SUN HOME

## HM15 (3-Phase)

### ALL-IN-ONE RESIDENTIAL ENERGY STORAGE SYSTEM



Easy  
Installation



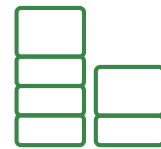
Temperature  
Resistance

IP66

IP66  
Waterproof



24-hour  
Monitoring System



Expandable  
Capacity



Artificial Intelligence  
(AI) Operation

Esysunhome New Energy Technology GmbH



Address: Seidlstraße 26, 80335 Munich, Germany

Email: [info-de@esysunhome.de](mailto:info-de@esysunhome.de)

Tel.: +49(0) 89 32602733



## Parameters

MODEL	HM15-20	HM15-30	HM15-60	HM15-90
Battery Quantity	2	3	6	9
Max. Output Power (kW)	6.6	9.9	15	15
Battery Capacity (kWh)	21.08	31.62	63.24	94.86
Dimensions (LxWxH mm)	660x270x1698	660x270x2098	(660x270x2098)+ (660x270x1408)x1	(660x270x2098)+ (660x270x1408)x2
Weight (kg)	213	298	558	818
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 (°C)	-25~60			
Optimum Operating Temperature Range (°C)	25±2			
Humidity	0~100% Relative Humidity			
Noise Level (dB) at 1m	≤45			
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.
THDI (Rated Power)	≤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

## 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 Harmaoics	≤3% (@Rated Power)
Power Factor Range	0.8 leading~0.8 lagging

## 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

## 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