



HM10-H / 15 / 20 (3-Phase)

ALL-IN-ONE RESIDENTIAL ENERGY STORAGE SYSTEM



Smart Protection
with Built-in
Fire Extinguisher



Class-leading
Charge &
Discharge Speed



IP66-Rated
Enclosure & Temperature
Resistance



Modular Design
with Scalable
Capacity



10-Year Warranty
with Public
Liability Insurance



Premium Local
Support with
24/7 Monitoring



Virtual Power
Plant (VPP)
Compatible

ESY SUNHOME AUSTRALIA PTY LTD



Address: 3/52-60 Roberts Road Greenacre NSW 2190

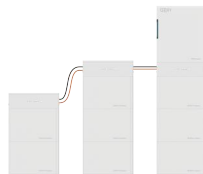
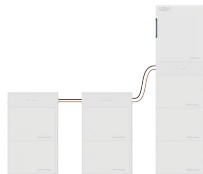
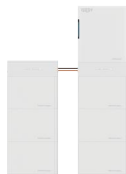
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HM10-H / 15 / 20 All-in-One System



Model	HM10-H/15/20-20	HM10-H/15/20-30	HM10-H/15/20-40	HM10-H/15/20-50
Battery Capacity	20.99 kWh	31.48 kWh	41.98 kWh	52.48 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	62.97 kWh	73.47 kWh	83.96 kWh	94.46 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
PV Input			
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 Ad.c./24 Ad.c.	24 Ad.c./48 Ad.c.	24 Ad.c./48 Ad.c.
MPPT		2	
Battery			
Battery Type		LiFePO4	
Cycle Life		≥6000 Cycles 25 °C	
Rated Operating Voltage		450 Vd.c.	
Voltage Range		380 Vd.c.~560 Vd.c.	
Protection		BMS/Software/Hardware/Fuse	
Input and Output (Grid)			
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/9.9 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			
Rated Output Voltage		400 Va.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.	28.9 Aa.c. @400 Va.c.
THDV		≤3% (linear load)	
Overload capacity		105% (≤60 s)/120% (≤30 s)	
Switching time		≤10 ms	
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 DC); III (for AC)	
Battery Reverse Polarity Protection		Yes	
General			
Max. Efficiency (PV to Grid)		98.20%	
MPPT Efficiency		99.90%	
Install Method		Wall-Mounted & Floor-Standing	
Communication		WiFi(2.4GHz)/USB/RS485/CAN	
Application Software Support System		iOS/Android/Web	
Cooling Method	Natural cooling	Intelligent air cooling	Intelligent air cooling
Operating Temperature Range		-25 °C~60 °C	
Relative Humidity		0~100%	
Noise Level at 1m		≤45 dB	
Ingress Protection Rating		IP66	
Warranty		120 months	
Applicable Standards		AS 4777.2; IEC 62109-1; IEC 62109-2 IEC 62619-2022; IEC 61000-6-1; IEC 61000-6-3	
Country of Manufacture		China	

* Specifications are subject to change without notice.

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