

Series	HM		
Model	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 ~ 950 Vd.c.	
Min. operating voltage		160 Vd.c.	
Starting voltage		180 Vd.c.	
Max. input current	16 A/16 A	16 A/32 A	16 A/32 A
Max. short-circuit current	24 A/24 A	24 A/48 A	24 A/48 A
MPPT quantity		2	
PV input backfeed short circuit current		0 Ad.c.	
Battery input/output rating			
Battery type		Lithium-ion	
Rated voltage		450 Vd.c.	
Grid charging		YES	
Max D.C Volts		150 Vd.c. ~ 600 Vd.c.	
Max. charging power	10 kW	15 kW	20 kW
Max. charging current	25 Ad.c.	37.5 Ad.c.	50 Ad.c.
Max. discharging power	10 kW	15 kW	20 kW
Max. discharging current	25 Ad.c.	37.5 Ad.c.	50 Ad.c.
Battery output short circuit current		80 A	
Battery input backfeed short circuit current		80 A	
Grid rating			
Rated voltage		230/400 Va.c. 3L/N/PE	
Rated frequency		50 / 60 Hz	
Rated input power	10 kW	15 kW	20 kW
Rated output power	9.999 kW	15 kW	20 kW
Rated apparent power	9.999 kVA	15 kVA	20 kVA
Max. input apparent power	15 kVA	22.5 kVA	30 kVA
Max. output apparent power	9.999 kVA	16.5 kVA	22 kVA
Current inrush		95 A	
Rated input/output current	14.4 Aa.c.	21.7Aa.c.	28.9 Aa.c.
Max. input current	21.7 Aa.c.	32.6 Aa.c.	40.0 Aa.c.
Max. output current	14.4 Aa.c.	23.8 Aa.c.	31.8 Aa.c.
Max. output fault current		260 A	
Power factor range		0.8 leading~0.8 lagging	
THDI(@Range power)		≤ 3%	
Max. output overcurrent protection		95 A	
Grid Mains output short circuit current		260 A	
Grid input backfeed short circuit current		260 A	
Backup load output rating			
Rated output voltage		230/400 Va.c. 3L/N/PE	
Rated output frequency		50 / 60 Hz	
Rated output power	10 kW	15 kW	20 kW
Rated apparent power	10 kVA	15 kVA	20 kW
Max. apparent output power	10 kVA	15 kVA	20 kVA
Rated current	14.4 Aa.c.	21.7 A a.c.	28.9 Aa.c.
Current inrush		95 A	
Max. output current	14.4 Aa.c.	21.7 A a.c.	28.9 Aa.c.
Max. output fault current		260 A	
Power factor range		1.0	
THDV		≤ 3% (linear load)	
Overload capacity		105%, 60 s/120%, 30 s	
Switching time		≤ 10 ms	
Load output short circuit current		260 A	

Generator input			
Max. input power	10 kW	15 kW	20 kW
Max. input current	14.4 Aa.c.	21.7 Aa.c.	28.9 Aa.c.
Nominal voltage	3L/N/PE, 230/400 Va.c.		
Rated current (maximum continous)	14.4 Aa.c.	21.7Aa.c.	28.9 Aa.c.
Power factor range	1.0		
Nominal frequency	50/60 Hz		
Efficiency			
Max. efficiency (PV to Grid)	98.2%		
MPPT efficiency	99.9%		
General parameter			
Dimensions (LxWxH)	660 mm×270 mm×705 mm		
Net weight	49.2 kg	51.2 kg	51.2 kg
Gross weight	55.4 kg	57.4 kg	57.4 kg
Install method	Floor mounting/ Wall mounting		
Operation temperature	-25 ~ 60 °C		
Storage temperature	-25 ~ 70 °C		
Altitude	≤ 3000 m		
Noise level at 1m	≤ 45 dB		
Relative humidity	5~95% (No Condensation)		
Cooling method	Natural cooling	Intelligent air cooling	Intelligent air cooling
Environmental category	Outdoor		
Environment pollution degree	External: PD 3, Internal: PD 2		
Communication method	WiFi/Ethernet/GPRS (optional), USB/RS485/CAN		
Ingress protection rating	IP 66		
Protection rating	Class I		
Anti-islanding method	Active Anti-Islanding: Frequency Shift (Method a)		
Topology	Non-isolated		
Over voltage category	OVC II (for DC); OVC III (for AC)		
Protection	Over/Under-voltage; Over/Under-frequency; Overload; Short Circuit; Over-temperature; Reverse Polarity of Photovoltaic Modules and Batteries; Leakage Current; Insulation Resistance; Anti-island Protection		
Country of Manufacture	China		
Warranty	120 months		

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