

Series	HM		
Model	ESYSUNHOME HM5-MAX	ESYSUNHOME HM10	ESYSUNHOME HM12
Rated input power	9.99 kW	9.99 kW	12 kW
Rated output power	5 kW	9.99 kW	12 kW
Operating mode	Monitoring software		
PV input			
Max. input power	18 kW		
Max. input voltage	550 Vd.c.		
Rated input voltage	360 Vd.c.		
Starting voltage	150 Vd.c.		
Min. operating voltage	100 Vd.c.		
MPPT operating voltage range	100 Vd.c.~540 Vd.c.		
Max. input current	30 Ad.c.+30 Ad.c.		
Max. short-circuit current	40 Ad.c.+40 Ad.c.		
Number of MPPTs	2		
PV input operating voltage range	100~540 Vd.c.		
PV input backfeed short circuit current	0 Ad.c.		
Grid			
Number of phases	Single-phase (L+N+PE)		
Rated input power	9.99 kW	9.99 kW	12 kW
Rated output power	5 kW	9.99 kW	12 kW
Max. input apparent power	15 kVA	15 kVA	18 kVA
Max. output apparent power	5 kVA	9.99 kVA	12 kVA
Rated output apparent power	5 kVA	9.99 kVA	12 kVA
Rated input/output voltage	230 Va.c.		
Voltage range	184 Va.c.~276 Va.c. ±2%		
Rated frequency	50 Hz		
Frequency range	50 Hz±5 Hz		
Rated input current	43.4 Aa.c. @ 230 V	43.4 Aa.c. @ 230 V	52.2 Aa.c. @ 230 V
Rated output current	21.7 Aa.c. @ 230 V	43.4 Aa.c. @ 230 V	52.2 Aa.c. @ 230 V
Power factor	0.8 leading~0.8 lagging		
THDI (rated power)	≤3%		
Load			
Rated power	10 kW	10 kW	12 kW
Max. output apparent power	10 kVA	10 kVA	12 kVA
Rated voltage	230 Va.c.		
Rated current	43.5 Aa.c @ 230 V	43.5 Aa.c @ 230 V	52.2 Aa.c @ 230 V
Output voltage range	184 Va.c.~276 Va.c. ±2%		
Output frequency	50 Hz ±1%		
THDV	≤ 3%(linear load)		
Overload capacity	110% (≤60 s)		
Switching time	≤10 ms		
Genset terminal input parameters			
Rated input voltage	230 Va.c. L/N/PE		
Maximum input active power	10 kW	10 kW	12 kW
Maximum input apparent power	10 kVA	10 kVA	12 kVA
Maximum continuous input current	43.5 Aa.c.	43.5 Aa.c.	52.2 Aa.c.
Rated input frequency	50 Hz		
Power factor	0.8 leading~0.8 lagging		

Compatible battery specification	
Battery type	Lithium-ion
Grid charging	Support
Rated voltage	51.2 Vd.c.
Voltage Range	42 Vd.c.~ 57.6 Vd.c.
Charging current	Maximum 196 Ad.c.
Max. charging voltage	57.6 Vd.c.
Max. discharge current	196 Ad.c.
Rated current (Max. continuous) input and output	196 Ad.c./196 Ad.c.
Efficiency	
Maximum efficiency	97.8%
MPPT efficiency	99.9%
Others	
Topology	Non isolated
Protection Rating	IP 66
Dimensions (L*W*H)	600±0.8 mm*305±0.5 mm*660±0.8 mm
Net weight	56±0.5 kg
Gross weight	61.5±0.5 kg
Installation	Floor mounting/Wall mounting
Operating temperature	-25~60 °C (derating above 45 °C)
Storage temperature	-25~70 °C
Cooling mode	Intelligent air cooling
Altitude	≤3000 m
Relative humidity	0~100%
Noise level at 1m	≤55 dB
Environmental category	Outdoor (shaded environment)
Environment pollution degree	External: PD 3;Internal: PD 2
Communication mode	WiFi/Ethernet/GPRS (optional)/USB/RS485/CAN
Current (inrush)	8 Aa.c.
Max. fault current	470 Aa.c.
Max. overcurrent protection	104 Aa.c.
Grid Mains short circuit current	470 A
Load short circuit current	420 A
Battery short circuit current	1276 A
AC backfeed short circuit current	310 A
Battery backfeed short circuit current	910 A
Anti-islanding method	Active anti-islanding: Power Variation (method c)
Protective class (I, II or III)	I
Over voltage category	OVC II (for PV/Battery); OVC III (for AC Grid Mains/Genset)
Protection	Over/under-voltage; over/under-frequency; over-current; overload; short circuit; over-temperature; leakage current; Insulation resistance; anti-island protection
Standards	IEC/EN 62109-1/-2, AS62109
EMC Standards	EN 61000-6-1/-2/-3/-4
Grid-connected standards	AS 4777.2
Warranty	120 months
Country of Manufacture	China