

Model	ESYSUNHOME HM5	ESYSUNHOME HM6
Rated power	5000 W	6000 W
Operating mode	Monitoring software	
PV input		
Max. input power	8000 W	
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	15 Ad.c.+15 Ad.c.	
Max. short-circuit current	20 Ad.c.+20 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/output power	5000 W	6000 W
Max. input/output apparent power	5000 VA	6000 VA
Rated output apparent power	5000 VA	6000 VA
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/output current	21.74 Aa.c. @ 230 V	26.09 Aa.c. @ 230 V
Power factor	0.8 (leading)~0.8 (lagging)	
THDI (rated power)	≤3%	
Load		
Rated power	5000 W	6000 W
Max. output apparent power	5000 VA	6000 VA
Rated voltage	230 Va.c.	
Rated current	21.74 Aa.c @ 230 V	26.09 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	105%, 60 s/120%, 30 s	
Switching time	≤ 20 ms	
Compatible battery specification		
Battery type	Lithium-ion	
Grid charging	Support	
Rated voltage	51.2 Vd.c.	
Voltage Range	40.8 Vd.c.~ 57.6 Vd.c.	
Charging current	Maximum 100 Ad.c.	
Max. charging voltage	58 Vd.c.	
Max. discharge current	120 Ad.c.	
Rated current (Max. continuous) input and output	100 Ad.c./120 Ad.c.	

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Efficiency		
Maximum efficiency	97.8%	
MPPT efficiency	99.9%	
Others		
Topology	High frequency isolation (for battery) Non isolated for PV	
Protection Rating	IP 66	
Dimensions (L*W*H)	600±0.8 mm*305±0.5 mm*530±0.8 mm	
Net weight	36.4±0.5 kg	
Gross weight	42.1±0.5 kg	
Installation	Installation on ground	
Operating temperature	-25~60 °C (derating above 45 °C)	
Storage temperature	-25~70 °C	
Cooling mode	Natural cooling	
Altitude	≤4000 m	
Relative humidity	0~100%	
Noise level at 1m	≤25 dB	
Environmental category	Outdoor	
Environment pollution degree	External: PD 3, Internal: PD 2	
Communication mode	WiFi/GPRS (optional), USB/RS485	
Current (inrush)	8 Aa.c.	
Rated apparent power	5000 VA	6000 VA
Max. output fault current	36.96 Aa.c. (21.74 Aa.c.*1.7)	44.35 Aa.c.(26.09 Aa.c.*1.7)
Max. output overcurrent protection	105 A	
Grid Mains output short circuit current	157 A/ 1.8 ms	
Load output short circuit current	171 A/ 108 ms	
Battery output short circuit current	726 A/ 4.65 ms	
AC input backfeed short circuit current	0 Aa.c.	
Battery input backfeed short circuit current	0 Aa.c.	
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)	
Protection	Over/under-voltage, over /under-frequency, overload, short circuit, over-temperature, reverse polarity of PV module and battery, leakage current, insulation resistance, anti-island protection.	
Standards	IEC 62109-1/-2	
EMC Standards	IEC 61000-6-1, IEC 61000-6-3	
Grid-connected standards	AS 4777.2	
Warranty	120 months	
Country of Manufacture	China	

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