ESY
SUNHOME

TAKE THE SUN HOME

HM6 SERIES

ALL-IN-ONE ENERGY STORAGE SYSTEM

Easy Installation

Temperature Resistance

IP66 Waterproof

24-hour Monitoring System

Expandable Capacity

Artificial Intelligence (AI) Operation

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Parameters

MODEL	HM6-05	HM6-10	HM6-15	HM6-20	HM6-25	HM6-30
No. of Modules	1	2	3	4	5	6
Max. Output Power (kW)	5	6*	6*	6*	6*	6*
Nominal Capacity (kWh)	5.12	10.24	15.36	20.48	25.60	30.72
Dimensions (L*W*H mm)	600*305*778	600*305*998	600*305*1218	600*305*1438	600*305*1658	600*305*1878
Weight (kg)	93	143	193	243	293	343
Battery Type	LiFePO4 Lithium Iron Phosphate					
Cycle Life	≥6000 Times 25 ℃					
Max. Efficiency	97.8%					
MPPT Efficiency	99.9%					
Mounting	Modular Stacking/Ground and Wall-Mounted					
Communication	Wi-Fi/Bluetooth/DRM					
Application Software Support System	iOS/Android/WEB					
Cooling Method	Natural Cooling					
Operating Temperature Range (℃)	-25~60 (derating above 45 ℃)					
Optimum Operating Temperature Range (℃)	25±2					
Humidity	0~100% Relative Humidity					
Noise Level (dB) at 1m	≤25					
Protection Rating	IP66					
Warranty	10 years					

PV input

Max. Input Power	8000 W
Rated Input Voltage	360 Vd.c.
Max. Input Voltage	550 Vd.c.
Starting Voltage	150 Vd.c.
MPPT Voltage Range	100 Vd.c.~540 Vd.c.
PV Max. Input Current	15 Ad.c.+15 Ad.c.
Max. Short Circuit Current	20 Ad.c.+20 Ad.c.

Back-up

Rated Output Power	6000 W
Max. Apparent Output Power	6000 VA
Rated Output Voltage	230 Va.c. L/N/PE
Rated Output Current	26.09 Aa.c.
Rated Output Frequency	50 Hz
Waveform	Sine Wave

Battery

Rated Voltage	51.2 Vd.c.
Voltage Range	40.8 Vd.c.~57.6 Vd.c.
Rated Charge Current	100 Ad.c.
Rated Discharge Current	120 Ad.c.

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 PV/Battery) III (for AC Grid/Mains)
Battery Reverse Polarity Protection	Yes

AC grid

Rated Input Power	6000 W
Rated Output Power	6000 W*
Max. Output Apparent Power	6000 VA
Rated Voltage	230 Va.c. L/N/PE
Input Voltage Range	184 Va.c.~276 Va.c. ±2%
Rated Current	26.09 Aa.c.
Rated Grid Frequency	50 Hz
Power Factor Range	0.8 leading~0.8 lagging

Applicable standard

Grid	CEC+RCM, IEC 62109/AS 62109, AS 4777.2
Safety	IEC 62619, IEC 60730-1, IEC/EN 62040-1
EMC	IEC/EN 61000-6-1, IEC/EN 61000-6-3

* Feed-in power can be configured to limit according to local DNSP export limit requirements