



TAKE THE SUN HOME

HM12 SERIES

ALL-IN-ONE ENERGY STORAGE SYSTEM



Easy Installation



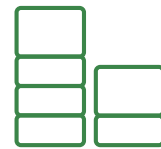
Temperature Resistance

IP66

IP66 Waterproof



24-hour Monitoring System



Expandable Capacity



Artificial Intelligence (AI) Operation

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Parameters

MODEL	HM12-10	HM12-15	HM12-20	HM12-25	HM12-30
No. of Modules	2	3	4	5	6
Max. Output Power (kW)	10	12	12	12	12
Usable Energy (kWh)	10.24	15.36	20.48	25.60	30.72
Dimensions (L*W*H mm)	600*305*998	600*305*1218	600*305*1438	600*305*1658	600*305*1878
Weight (kg)	143	193	243	293	343
Battery Type	IFpP/Lithium Iron Phosphate				
Cycle Life	≥6000 Times 25°C				
Conversion Efficiency	≥98%				
Battery Efficiency	≥95%				
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 (°C)	-25~60				
Optimum Operating Temperature Range (°C)	25±2				
Humidity	0~100% Relative Humidity				
Noise Level (dB)	≤25				
Stand-by Power Consumption (W)	≤15				
Protection Rating	IP66				
Warranty	10 years				

PV input

Max. Input Power	15kW
Rated Input Voltage	350Vd.c.
Max. Input Voltage	550Vd.c.
MPPT Voltage Range	100Vd.c.~540Vd.c.
PV Max. Input Current	26Ad.c.+26Ad.c.
Max. Short Circuit Current	30Ad.c.+30Ad.c.

Load output

Rated Output Power	12kW
Rated Output Voltage	230Va.c. L/N/PE
Rated Output Current	52.17Aa.c.
Rated Output Frequency	50Hz
Waveform	Sine Wave
Power Factor Range	0.8 leading~0.8 lagging

Battery

Rated Voltage	51.2Vd.c.
Voltage Range	48Vd.c.~57.6Vd.c.
Rated Charge Current	100Ad.c.
Rated Discharge Current	120Ad.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
Battery Reverse Polarity Protection	Yes

AC grid

Rated AC Power	12kW
Rated Voltage	230Va.c. L/N/PE
Input Voltage Range	184V~276V
Rated Current	52.17Aa.c.
Rated Grid Frequency	50Hz
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