



TAKE THE SUN HOME

HM5-MAX/HM10/HM12 (SINGLE PHASE) All-in-One Residential Energy Storage System



IP66
Rated Enclosure



24/7 Monitoring
System



Modular
Installation



Scalable
System Capacity



Temperature
Resistance



Artificial Intelligence
(AI) Operation



Easy To Maintain



Energy Management
Optimization



Large Battery
Capacity



Rapid Battery
Charging

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HM5-MAX/10/12 Overview of Multiple Batteries



Model	HM5-MAX/10/12-05	HM5-MAX/10/12-10	HM5-MAX/10/12-15	HM5-MAX/10/12-20	HM5-MAX/10/12-25	HM5-MAX/10/12-30
Battery Quantity	1	2	3	4	5	6
Max. Output Power	5/10/12 kW	5/10/12 kW	5/10/12 kW	5/10/12 kW	5/10/12 kW	5/10/12 kW
Battery Capacity	5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh	25.60 kWh	30.72 kWh
Dimensions (LxWxH)	600x305x908 mm	600x305x1128 mm	600x305x1348 mm	600x305x1568 mm	600x305x1788 mm	600x305x2008 mm
Weight	113 kg	163 kg	213 kg	263 kg	313 kg	363 kg

Parameters	HM5-MAX		HM10		HM12	
Battery Type	IFpP		IFpP		IFpP	
Cycle Life	≥6000 Times 25 °C		≥6000 Times 25 °C		≥6000 Times 25 °C	
Max. Efficiency	97.8%		97.8%		97.8%	
MPPT Efficiency	99.9%		99.9%		99.9%	
Mounting	Modular Stacking/Ground		Modular Stacking/Ground		Modular Stacking/Ground	
Communication	WiFi/GPRS (optional)/USB/RS485/CAN		WiFi/GPRS (optional)/USB/RS485/CAN		WiFi/GPRS (optional)/USB/RS485/CAN	
Application Software Support System	iOS/Android/Web		iOS/Android/Web		iOS/Android/Web	
Cooling Method	Intelligent Air Cooling		Intelligent Air Cooling		Intelligent Air Cooling	
Operating Temperature Range	-25~60 °C(Derating above 45 °C)		-25~60 °C(Derating above 45 °C)		-25~60 °C(Derating above 45 °C)	
Humidity	0~100% Relative Humidity		0~100% Relative Humidity		0~100% Relative Humidity	
Noise Level	≤55 dB		≤55 dB		≤55 dB	
Protection Rating	IP66		IP66		IP66	
Warranty	10 Years		10 Years		10 Years	

PV Input	HM5-MAX	HM10	HM12
Max. Input Power	18 kW	18 kW	18 kW
Rated Input Voltage	360 Vd.c.	360 Vd.c.	360 Vd.c.
Max. Input Voltage	550 Vd.c.	550 Vd.c.	550 Vd.c.
Starting Voltage	150 Vd.c.	150 Vd.c.	150 Vd.c.
MPPT Voltage Range	100 Vd.c.~540 Vd.c.	100 Vd.c.~540 Vd.c.	100 Vd.c.~540 Vd.c.
PV Max. Input Current	30 Ad.c./30 Ad.c.	30 Ad.c./30 Ad.c.	30 Ad.c./30 Ad.c.
Max. Short Circuit Current	40 Ad.c./40 Ad.c.	40 Ad.c./40 Ad.c.	40 Ad.c./40 Ad.c.

AC Grid	HM5-MAX	HM10	HM12
Rated Input Power	9.9 kW	9.9 kW	12 kW
Rated Output Power	5000 W	9.9 kW	12 kW
Max. Output Apparent Power	5000 VA	9.9 kVA	12 kVA
Rated Voltage	230 Va.c. L/N/PE	230 Va.c. L/N/PE	230 Va.c. L/N/PE
Input Voltage Range	184 Va.c.~276 Va.c.	184 Va.c.~276 Va.c.	184 Va.c.~276 Va.c.
Rated Input/Output Current	43.4 Aa.c./21.7 Aa.c.	43.4 Aa.c./43.4 Aa.c.	52.2 Aa.c./52.2 Aa.c.
Rated Output Frequency	50 Hz	50 Hz	50 Hz
Power Factor Range	0.8 leading ~0.8 lagging	0.8 leading ~0.8 lagging	0.8 leading ~0.8 lagging

Backup	HM5-MAX	HM10	HM12
Rated Output Power	10 kW	10 kW	12 kW
Max. Apparent Output Power	10 kVA	10 kVA	12 kVA
Rated Output Voltage	230 Va.c. L/N/PE	230 Va.c. L/N/PE	230 Va.c. L/N/PE
Rated Output Current	43.5 Aa.c.	43.5 Aa.c.	52.2 Aa.c.
Rated Output Frequency	50 Hz	50 Hz	50 Hz
Waveform	Sine Wave	Sine Wave	Sine Wave

Battery	HM5-MAX	HM10	HM12
Rated Voltage	51.2 Vd.c.	51.2 Vd.c.	51.2 Vd.c.
Voltage Range	42 Vd.c.~57.6 Vd.c.	42 Vd.c.~57.6 Vd.c.	42 Vd.c.~57.6 Vd.c.
Rated Charge Current	140 Ad.c.	140 Ad.c.	140 Ad.c.
Rated Discharge Current	140 Ad.c.	140 Ad.c.	140 Ad.c.

Protection	HM5-MAX		HM10		HM12	
Anti-islanding Protection	Yes		Yes		Yes	
PV Reverse Polarity Protection	Yes		Yes		Yes	
Insulation Resistance Detection	Yes		Yes		Yes	
Residual Current Detection	Yes		Yes		Yes	
Output Overcurrent Protection	Yes		Yes		Yes	
Output Short Circuit Protection	Yes		Yes		Yes	
Overvoltage Category	II (for PV/Battery) III (for AC Grid Mains)		II (for PV/Battery) III (for AC Grid Mains)		II (for PV/Battery) III (for AC Grid Mains)	
Battery Reverse Polarity Protection	Yes		Yes		Yes	

Applicable Standards

Grid Connection:

AUS: AS 4777.2; CEC+RCM

Safety:

Inverter: IEC 62109-1; IEC 62109-2; Battery: IEC 62619:2022; ISO 13849; IEC/EN 62040-1; VDE 2510-050:2017

EMC: IEC 61000-6-1; IEC 61000-6-3