



TAKE THE SUN HOME

HM5/HM6/HM12 All-in-One Residential Energy Storage System

(SINGLE PHASE)



IP66-rated Enclosures



24/7 Monitoring System



Modular Installation



Scalable System Capacity



Temperature Resistance



Artificial Intelligence (AI) Operation



Ease of Maintenance



Energy Management Optimization

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HM5/6/12 Multiple Batteries Overview



HM5/6-05



HM5/6/12-10



HM5/6/12-15



HM5/6/12-20



HM5/6/12-25



HM5/6/12-30

Model	HM5/HM6-05	HM5/HM6/HM12-10	HM5/HM6/HM12-15	HM5/HM6/HM12-20	HM5/HM6/HM12-25	HM5/HM6/HM12-30
Battery Quantity	1	2	3	4	5	6
Max. Output Power	5/6 kW	5/6/12 kW	5/6/12 kW	5/6/12 kW	5/6/12 kW	5/6/12 kW
Battery Capacity	5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh	25.60 kWh	30.72 kWh
Dimensions (LxWxH)	600x305x778 mm	600x305x998 mm	600x305x1218 mm	600x305x1438 mm	600x305x1658 mm	600x305x1878 mm
Weight	93 kg	143 kg	193 kg	243 kg	293 kg	343 kg

Parameters	HM5	HM6	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/Bluetooth/DRM/4G	WiFi/Bluetooth/DRM/4G	WiFi/Bluetooth/DRM/4G
Application Software Support System	iOS/Android/Web	iOS/Android/Web	iOS/Android/Web
Cooling Method	Natural Cooling	Natural Cooling	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)
Optimum Operating Temperature Range	25±2 °C	25±2 °C	25±2 °C
Humidity	0~100% Relative Humidity	0~100% Relative Humidity	0~100% Relative Humidity
Noise Level	≤25 dB	≤25 dB	≤45 dB
Protection Rating	IP66	IP66	IP66
Warranty	10 Years	10 Years	10 Years

PV Input	HM5	HM6	HM12
Max. Input Power	8000 W	8000 W	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	15 Ad.c./15 Ad.c.	15 Ad.c./15 Ad.c.	30 Ad.c./30 Ad.c.
Max. Short Circuit Current	20 Ad.c./20 Ad.c.	20 Ad.c./20 Ad.c.	40 Ad.c./40 Ad.c.

AC Grid	HM5	HM6	HM12
Rated Input Power	5000 W	6000 W	12 kW
Rated Output Power	5000 W	6000 W	12 kW
Max. Output Apparent Power	5000 VA	6000 VA	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 Current	21.74 Aa.c.	26.09 Aa.c.	52.2 Aa.c.
Rated Output Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Power Factor Range	0.8 leading~0.8 lagging	0.8 leading~0.8 lagging	0.8 leading~0.8 lagging

Backup	HM5	HM6	HM12
Rated Output Power	5000 W	6000 W	12 kW
Max. Apparent Output Power	5000 VA	6000 VA	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	21.74 Aa.c.	26.09 Aa.c.	52.2 Aa.c.
Rated Output Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Waveform	Sine Wave	Sine Wave	Sine Wave

Battery	HM5	HM6	HM12
Rated Voltage	51.2 Vd.c.	51.2 Vd.c.	51.2 Vd.c.
Voltage Range	40.8 Vd.c.~57.6 Vd.c.	40.8 Vd.c.~57.6 Vd.c.	40.8 Vd.c.~57.6 Vd.c.
Rated Charge Current	100 Ad.c.	100 Ad.c.	140 Ad.c.
Rated Discharge Current	120 Ad.c.	120 Ad.c.	140 Ad.c.

Protection	HM5	HM6	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; DE: DIN VDE V 0124-100:2020; VDE-AR-N 4105:2018; AT: OVE Directive R 25:2020; TOR Erzeuger Type A V1.2; IT: CEI 0-21; UK: G99/1-8 typeA; IE: Distribution Code Version 8; BE: C10/11:2021; CH: NA/EEA-NE7-CH:2020; FR: DINVDE 0126-1-1 VFR:2019; ES: NTS 631 V21 SEPE (type A); UNE 217001; UNE 217002; PT: RfG + Portugal deviation
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