



TAKE THE SUN HOME

HM5-MAX/HM10/HM12

Residential All-in-One System

(HM-SERIES SINGLE-PHASE HIGH-POWER HOME SYSTEM)



IP66-rated
Enclosure



Artificial Intelligence
(AI) & Dynamic
Electricity Tariff



Modular Installation
& Easy Maintenance



Premium Local
Support &
24/7 Monitoring



VPP Compatible



Smart Protection
with Built-in
Fire Extinguisher



Class-leading
Charging and
Discharging Speed

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Model	HM5-MAX/HM10/HM12-05	HM5-MAX/HM10/HM12-10	HM5-MAX/HM10/HM12-15	HM5-MAX/HM10/HM12-20	HM5-MAX/HM10/HM12-25	HM5-MAX/HM10/HM12-30
Battery Count	1	2	3	4	5	6
Rated 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
Rated Capacity	5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh	25.60 kWh	30.72 kWh
Dimension (L*W*H)	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	LiFePO ₄	LiFePO ₄	LiFePO ₄
Cycle Life	≥6000 times @ 25 °C, SOH=70%	≥6000 times @ 25 °C, SOH=70%	≥6000 times @ 25 °C, SOH=70%
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	LAN/Wi-Fi/USB/RS485/CAN	LAN/Wi-Fi/USB/RS485/CAN	LAN/Wi-Fi/USB/RS485/CAN
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 over 45 °C)	-25 ~ 60 °C (derating over 45 °C)	-25 ~ 60 °C (derating over 45 °C)
Altitude	≤3000 m	≤3000 m	≤3000 m
Relative Humidity	0 ~ 100%	0 ~ 100%	0 ~ 100%
Noise Level	≤55 dB	≤55 dB	≤55 dB
Ingress 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
Max. Input Voltage	550 Vd.c.	550 Vd.c.	550 Vd.c.
Rated Input Voltage	360 Vd.c.	360 Vd.c.	360 Vd.c.
Starting Voltage	150 Vd.c.	150 Vd.c.	150 Vd.c.
Min. Voltage	100 Vd.c.	100 Vd.c.	100 Vd.c.
MPPT Input Voltage Range	100 ~ 540 Vd.c.	100 ~ 540 Vd.c.	100 ~ 540 Vd.c.
Max. Input Current	30 / 30 Ad.c.	30 / 30 Ad.c.	30 / 30 Ad.c.
Max. Short-Circuit Current	40 / 40 Ad.c.	40 / 40 Ad.c.	40 / 40 Ad.c.
MPPT Count	2	2	2

Backup Output	HM5-MAX	HM10	HM12
Rated Power	10 kW	10 kW	12 kW
Max. Output Apparent Power	10 kVA	10 kVA	12 kVA
Rated Voltage	230 Va.c. (220 V adjustable)	230 Va.c. (220 V adjustable)	230 Va.c. (220 V adjustable)
Rated Current	43.5 Aa.c.	43.5 Aa.c.	52.2 Aa.c.
Output Voltage Range	184 ~ 276 Va.c.	184 ~ 276 Va.c.	184 ~ 276 Va.c.
Rated Output Frequency	50 Hz	50 Hz	50 Hz
THDU	≤3%	≤3%	≤3%
Switch Time	20ms	20ms	20ms

Battery	HM5-MAX	HM10	HM12
Rated Voltage	51.2 Vd.c.	51.2 Vd.c.	51.2 Vd.c.
Voltage Range	42 ~ 57.6 Vd.c.	42 ~ 57.6 Vd.c.	42 ~ 57.6 Vd.c.
Max. Charging Current	196 Ad.c.	196 Ad.c.	196 Ad.c.
Max. Discharging Current	196 Ad.c.	196 Ad.c.	196 Ad.c.

Grid	HM5-MAX	HM10	HM12
Rated Input/Output Power	9.9 / 5 kW	9.9 kW	12 kW
Max. Input/Output Apparent Power	15 / 5 kVA	15 / 9.9 kVA	18 / 12 kVA
Rated Voltage	230 Va.c.	230 Va.c.	230 Va.c.
Voltage Range	184 ~ 276 Va.c.	184 ~ 276 Va.c.	184 ~ 276 Va.c.
Rated Frequency	50 Hz	50 Hz	50 Hz
Rated Input Current	43.4 Aa.c.	43.4 Aa.c.	52.2 Aa.c.
Rated Output Current	21.7 Aa.c.	43.4 Aa.c.	52.2 Aa.c.
Power Factor	0.8 leading ~ 0.8 lagging	0.8 leading ~ 0.8 lagging	0.8 leading ~ 0.8 lagging
THDI	≤3%	≤3%	≤3%

Generator	HM5-MAX	HM10	HM12
Max. Input Apparent Power	10 kW	10 kW	12 kW
Max. Input Current	43.5 Aa.c.	43.5 Aa.c.	52.2 Aa.c.

Protection	HM5-MAX	HM10	HM12
Over/Under Voltage Protection	Yes	Yes	Yes
Over/Under Frequency Protection	Yes	Yes	Yes
Overload Protection	Yes	Yes	Yes
Short-Circuit Protection	Yes	Yes	Yes
Over Temperature Protection	Yes	Yes	Yes
Over Current Protection	Yes	Yes	Yes
Leakage Current Protection	Yes	Yes	Yes
Insulation Resistance Protection	Yes	Yes	Yes
Anti-islanding Protection	Yes	Yes	Yes

Standard Compliance

Grid Connection: AUS: AS/NZS 4777.2:2020+A1; NL: EN 50549-1:2019/AC: 2019; RFG: 2016; IT: CEI 0-21

Safety: Inverter: IEC 62109-1; IEC 62109-2; Battery: IEC 62619:2022; ISO 13849-1:2015; IEC 62040-1:2017; IEC 62040-1:2017/AMD1:2021

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

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