



TAKE THE SUN HOME

# HM5/HM6 Residential All-in-One System

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



IP66-rated  
Enclosure



Artificial Intelligence  
(AI) & Dynamic  
Electricity Tariff



Modular Installation  
& Easy Maintenance



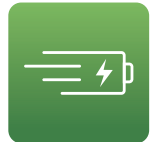
Premium Local  
Support &  
24/7 Monitoring



VPP Compatible



Smart Protection  
with Built-in  
Fire Extinguisher



Class-leading  
Charging and  
Discharging Speed

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Model	HM5/HM6-05	HM5/HM6-10	HM5/HM6-15	HM5/HM6-20	HM5/HM6-25	HM5/HM6-30
Battery Count	1	2	3	4	5	6
Rated Output Power	5/6 kW	5/6 kW	5/6 kW	5/6 kW	5/6 kW	5/6 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)	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
Battery Type	LiFePO <sub>4</sub>	LiFePO <sub>4</sub>
Cycle Life	≥6000 times @ 25 °C, SOH=70%	≥6000 times @ 25 °C, SOH=70%
Max. Efficiency	97.8%	97.8%
MPPT Efficiency	99.9%	99.9%
Mounting	Modular Stacking/Ground	Modular Stacking/Ground
Communication	LAN/Wi-Fi/USB/RS485/CAN	LAN/Wi-Fi/USB/RS485/CAN
Software Support System	iOS/Android/Web	iOS/Android/Web
Cooling Method	Natural Cooling	Natural Cooling
Operating Temperature Range	-25 to 60 °C (derating over 45 °C)	-25 to 60 °C (derating over 45 °C)
Altitude	≤4000 m	≤4000 m
Relative Humidity	0 ~ 90%	0 ~ 90%
Noise Level at 1m	≤25 dB	≤25 dB
Ingress Protection Rating	IP66	IP66
Warranty	10 years	10 years

PV Input	HM5	HM6
Max. Input Power	8000 W	8000 W
Max. Input Voltage	550 Vd.c.	550 Vd.c.
Rated Input Voltage	360 Vd.c.	360 Vd.c.
Starting Voltage	100 Vd.c.	100 Vd.c.
Min. Voltage	150 Vd.c.	150 Vd.c.
MPPT Input Voltage Range	100 ~ 540 Vd.c.	100 ~ 540 Vd.c.
Max. PV Input Current	15 / 15 Ad.c.	15 / 15 Ad.c.
Max. Short Circuit Current	20 / 20 Ad.c.	20 / 20 Ad.c.
MPPT Count	2	2

Backup Output	HM5	HM6
Rated Output Power	5000 W	6000 W
Max. Apparent Output Power	5000 VA	6000 VA
Rated Voltage	230 Va.c. (208/220/240 V adjustable)	230 Va.c. (208/220/240 V adjustable)
Rated Current	21.74 Aa.c. @ 230 V	26.09 Aa.c. @ 230 V
Output Voltage Range	184 ~ 276 Va.c.	184 ~ 276 Va.c.
Rated Output Frequency	50 / 60 Hz	50 / 60 Hz
THDU	≤3%	≤3%
Switch Time	20 ms	20 ms

Battery	HM5	HM6
Rated Voltage	51.2 Vd.c.	51.2 Vd.c.
Voltage Range	40.8 ~ 57.6 Vd.c.	40.8 ~ 57.6 Vd.c.
Max. Charging Current	100 Ad.c.	100 Ad.c.
Max. Discharging Current	120 Ad.c.	120 Ad.c.

AC Grid	HM5	HM6
Rated Input/Output Power	5000 W	6000 W
Max. Input/Output Apparent Power	5000 VA	6000 VA
Rated Voltage	220 / 230 Va.c. (Single Phase)	220 / 230 Va.c. (Single Phase)
Voltage Range	184 ~ 276 Va.c.	184 ~ 276 Va.c.
Rated Current	21.74 Aa.c. @ 230 V	26.09 Aa.c. @ 230 V
Rated Frequency	50 / 60 Hz	50 / 60 Hz
Power Factor	0.8 leading ~ 0.8 lagging	0.8 leading ~ 0.8 lagging
THDI	≤3%	≤3%

Protection	HM5	HM6
Over/Under Voltage Protection	Yes	Yes
Over/Under Frequency Protection	Yes	Yes
Overload Protection	Yes	Yes
Short-circuit Protection	Yes	Yes
Over Temperature Protection	Yes	Yes
PV and Battery Reverse Polarity Protection	Yes	Yes
Leakage Current Protection	Yes	Yes
Insulation Resistance Protection	Yes	Yes
Anti-islanding Protection	Yes	Yes

#### Standard Compliance

**Grid Connection:** AUS: AS4777.2:2020; DE: DINVDEV0124-100:2020, VDE-AR-N4105:2018; NL: EN 50549-1:2019/AC:2019, Netcode elektriciteit:2023, RfG:2016; IT:CEI 0-21:2022; UK:G99/1-10:2024;

IE: RfG:2016; DOC-030221-GAP:2022; BE:C10/11:2021; ZA: NRS 097-2-1:2017; ES: NTS V2.1:2021-07

**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