



TAKE THE SUN HOME

HM10-H/HM15/HM20 Residential All-in-One System

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



Hybrid Energy
Microgrid



Emergency
Backup
Power Supply



Compatible
with DC/DC
fast EV Charger



AI & Dynamic
Electricity Tariff



5 Layers of
Safety Protection



IP66-rated
Enclosure



Supports Parallel
Connection of
Multiple Systems

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Model	HM10-H/HM15/HM20-20	HM10-H/HM15/HM20-30	HM10-H/HM15/HM20-60	HM10-H/HM15/HM20-90
Battery Count	2	3	6	9
Rated Output Power	10 / 15 / 20 kW	10 / 15 / 20 kW	10 / 15 / 20 kW	10 / 15 / 20 kW
Rated Capacity	21.08 kWh	31.62 kWh	63.24 kWh	94.86 kWh
Dimension (L*W*H)	660x270x1725 mm	660x270x2131 mm	660x270x2131 mm+(660x270x1448 mm)x1	660x270x2131 mm+(660x270x1448 mm)x2
Weight	213 kg	298 kg	558 kg	818 kg
Parameters	HM10-H	HM15	HM20	
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	98.20%	98.20%	98.20%	
MPPT Efficiency	99.90%	99.90%	99.90%	
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	-25 ~ 60 °C	-25 ~ 60 °C	
Altitude	≤3000 m	≤3000 m	≤3000 m	
Relative Humidity	0 ~ 100%	0 ~ 100%	0 ~ 100%	
Noise Level	≤45 dB	≤45 dB	≤45 dB	
Ingress Protection Rating	IP66	IP66	IP66	
Warranty	10 years	10 years	10 years	
PV Input	HM10-H	HM15	HM20	
Max. Input Power	20 kW	30 kW	30 kW	
Max. Input Voltage	1000 Vd.c.	1000 Vd.c.	1000 Vd.c.	
Rated Input Voltage	650 Vd.c.	650 Vd.c.	650 Vd.c.	
Starting Voltage	180 Vd.c.	180 Vd.c.	180 Vd.c.	
Min. Voltage	160 Vd.c.	160 Vd.c.	160 Vd.c.	
MPPT Operating Voltage Range	160 ~ 950 Vd.c.	160 ~ 950 Vd.c.	160 ~ 950 Vd.c.	
Max. Input Voltage	16 / 16 Ad.c.	16 / 32 Ad.c.	16 / 32 Ad.c.	
Max. Short-Circuit Current	24 / 24 Ad.c.	24 / 48 Ad.c.	24 / 48 Ad.c.	
MPPT Count	2	2	2	
Backup Output	HM10-H	HM15	HM20	
Rated Power	10 kW	15 kW	20 kW	
Max. Apparent Power	10 kVA	15 kVA	20 kVA	
Rated Voltage	400 Va.c. (Three Phase)	400 Va.c. (Three Phase)	400 Va.c. (Three Phase)	
Rated Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	
Rated Output Current	14.4 Aa.c.	21.7 Aa.c.	28.9 Aa.c.	
THDV	≤3% (Linear Load)	≤3% (Linear Load)	≤3% (Linear Load)	
Switch Time	≤10 ms	≤10 ms	≤10 ms	
Battery	HM10-H	HM15	HM20	
Rated Voltage	450 Vd.c.	450 Vd.c.	450 Vd.c.	
Operating Voltage Range	150 ~ 600 Vd.c.	150 ~ 600 Vd.c.	150 ~ 600 Vd.c.	
Max. Charging Current	25 Ad.c.	50 Ad.c.	50 Ad.c.	
Max. Discharging Current	25 Ad.c.	37.5 Ad.c.	50 Ad.c.	
Grid	HM10-H	HM15	HM20	
Rated Output Power	9.9 kW	15 kW	20 kW	
Max. Input Apparent Power	15 kVA	22.5 kVA	30 kVA	
Max. Output Apparent Power	9.9 kVA	16.5 kVA	22 kVA	
Rated Voltage	400 Va.c. (Three Phase)	400 Va.c. (Three Phase)	400 Va.c. (Three Phase)	
Voltage Range	320 ~ 480 Vd.c.	320 ~ 480 Vd.c.	320 ~ 480 Vd.c.	
Rated Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	
Rated Output Current	14.4 Aa.c.	21.7 Aa.c.	28.9 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	HM10-H	HM15	HM20	
Max. Input Power	10 kW	15 kW	20 kW	
Max. Input Current	14.4 Aa.c.	21.7 Aa.c.	28.9 Aa.c.	
Protection	HM10-H	HM15	HM20	
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	
Residual Current Detection	Yes	Yes	Yes	
Output Overcurrent Protection	Yes	Yes	Yes	
Insulation Resistance Detection	Yes	Yes	Yes	
Anti-islanding Protection	Yes	Yes	Yes	
Surge Protection	Yes	Yes	Yes	

Standard Compliance

Grid Connection: AU: AS/NZS 4777.2:2020 Amd 2:2024, AS/NZS 4777.2:2020+A1; DE: VDE-AR-N 4105/11.18, DIN VDE V 0124-100/06.20; AT: OVE-Richtlinie R25/03.20, TOR Stromerzeugungsanlagen Typ A Version 1.3:2024; BE: C10/11:2019; IT: CEI 0-21:2022-03, CEI 0-21;V1:2022-11, CEI 0-21;V2:2024-01; FR: EN 50549-1:2019+A1:2023, EN 50549-10:2022, FD C11-519-11:2023; CH: NA/EEA-NE7 - CH 2020

Safety: Inverter: IEC 62109-1; IEC 62109-2; Battery: IEC 62040-1:2017, IEC 62040-1:2017/AMD1:2021

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

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