



TAKE THE SUN HOME

HM10-H/HM15/HM20 All-in-One Residential Energy Storage System (3-PHASE)



Seamless
Emergency
Power Supply



Real Time
Monitoring



Sustainability
And
Cost Savings



Scalable
Modular
Design



Temperature
Resistance



Ai Driven
Performance



Easy To
Maintain



Energy
Management
Optimization

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HM10-H/15/20 Overview of Multiple Batteries



HM10-H/HM15/HM20-20



HM10-H/HM15/HM20-30



HM10-H/HM15/HM20-60



HM10-H/HM15/HM20-90

Model	HM10-H/HM15/HM20-20	HM10-H/HM15/HM20-30	HM10-H/HM15/HM20-60	HM10-H/HM15/HM20-90
Battery Quantity	2	3	6	9
Max. Output Power	10/15/20 kW	10/15/20 kW	10/15/20 kW	10/15/20 kW
Battery Capacity	21.0 kWh	31.5 kWh	63.0 kWh	94.5 kWh
Dimensions (LxWxH)	660x270x1725 mm	660x270x2131 mm	660x270x2131 mm +(660x270x1448 mm)x1	660x270x2131 mm +(660x270x1448 mm)x2
Weight	262.5 kg/266.6 kg/266.6 kg	358.75 kg/376.35 kg/376.35 kg	670.7 kg/674.8 kg/674.8 kg	980.25 kg/984.35 kg/984.35 kg

Parameters	HM10-H	HM15	HM20
Battery Type	IFpP	IFpP	IFpP
Cycle Life	≥6000 Times 25 °C	≥6000 Times 25 °C	≥6000 Times 25 °C
Conversion 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	WiFi(2.412-2.484GHz)/USB/RS485/CAN	WiFi(2.412-2.484GHz)/USB/RS485/CAN	WiFi(2.412-2.484GHz)/USB/RS485/CAN
Application Software Support System	iOS/Android/Web	iOS/Android/Web	iOS/Android/Web
Cooling Method	Natural Cooling	Intelligent Air Cooling	Intelligent Air Cooling
Operating Temperature Range	-25 °C~60 °C	-25 °C~60 °C	-25 °C~60 °C
Humidity	0~100% Relative Humidity	0~100% Relative Humidity	0~100% Relative Humidity
Noise Level at 1m	≤45 dB	≤45 dB	≤45 dB
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
Rated Input Voltage	650 Vd.c.	650 Vd.c.	650 Vd.c.
Max. Input Voltage	1000 Vd.c.	1000 Vd.c.	1000 Vd.c.
MPPT Voltage Range	160 Vd.c.~950 Vd.c.	160 Vd.c.~950 Vd.c.	160 Vd.c.~950 Vd.c.
PV Max. Input Current	16 Ad.c./16 Ad.c.	16 Ad.c./32 Ad.c.	16 Ad.c./32 Ad.c.
Max. Short Circuit Current	24 Ad.c./24 Ad.c.	24 Ad.c./48 Ad.c.	24 Ad.c./48 Ad.c.
MPPT	2	2	2

AC Output (Backup)	HM10-H	HM15	HM20
Rated Output Power	10 kW	15 kW	20 kW
Max. Output Apparent Power	10 kVA	15 kVA	20 kVA
Rated Output Voltage	400 V.a.c. 3L/N/PE	400 V.a.c. 3L/N/PE	400 V.a.c. 3L/N/PE
Rated Output Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Rated Output Current	14.4 A.a.c.	21.7 A.a.c.	28.9 A.a.c.
Max. Output Current	14.4 A.a.c.	21.7 A.a.c.	28.9 A.a.c.
Current Harmonics	≤3% (Linear Load)	≤3% (Linear Load)	≤3% (Linear Load)
Switching Time	≤10 ms	≤10 ms	≤10 ms

Battery	HM10-H	HM15	HM20
Rated Operating Voltage	450 Vd.c.	450 Vd.c.	450 Vd.c.
Voltage Range	380 Vd.c.~560 Vd.c.	380 Vd.c.~560 Vd.c.	380 Vd.c.~560 Vd.c.
Protection	BMS/Software /Hardware/Fuse	BMS/Software /Hardware/Fuse	BMS/Software /Hardware/Fuse

AC Input (Grid)	HM10-H	HM15	HM20
Max. Input Apparent Power	15 kVA	22.5 kVA	30 kVA
Grid Type	400 V.a.c. 3L/N/PE	400 V.a.c. 3L/N/PE	400 V.a.c. 3L/N/PE
Max. Input Current	21.7 A.a.c.	32.6 A.a.c.	40.0 A.a.c.
Input Frequency Range	50/60 Hz	50/60 Hz	50/60 Hz

AC Output (Grid)	HM10-H	HM15	HM20
Rated Output Power	9.9 kW	15 kW	20 kW
Max. Output Apparent Power	11 kVA	16.5 kVA	22 kVA
Rated Output Voltage	400 V.a.c. 3L/N/PE	400 V.a.c. 3L/N/PE	400 V.a.c. 3L/N/PE
Rated Output Current	14.3 A.a.c.	21.7 A.a.c.	29.0 A.a.c.
Max. Output Current	15.8 A.a.c.	23.9 A.a.c.	31.9 A.a.c.
Rated Output Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Current Harmonics	≤3% (@Rated Power)	≤3% (@Rated Power)	≤3% (@Rated Power)
Power Factor Range	0.8 leading ~0.8 lagging	0.8 leading ~0.8 lagging	0.8 leading ~0.8 lagging

Protection	HM10-H	HM15	HM20
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
Battery Reverse Polarity Protection	Yes	Yes	Yes

Applicable Standards

Grid Connection: AUS: AS 4777.2; CEC; 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; BE: C10/11:2021

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