ACADA
RENEWABLE EXPERIENCE

HM10-H

3-phase

IP66 Protection

Cold Temperature Resistance

Easy Installation

24/7 Monitoring System

Emergency Backup Power

Artificial Intelligence

Scalable System Capacity



Applicable Standards

Grid Connection:

DE: VDE-AR-N 4105/11.18; DIN VDE V 0124-100/06.20; **AT**: OVE-Richtlinie R25/03.20; TOR Stromerzeugungsanlagen Typ A V1.3:2024; **BE**: C10/11:2019; **IT**: CEI 0-21:2022-03; CEI 0-21;V1:2022-11; CEI 0-21;V2:2024-01; **CH**: NA/EEA-NE7-CH 2020; **FR**: EN 50549-1:2019+A1:2023; EN 50549-10:2022; FD C11-519-11:2023;

Safety:

Inverter: IEC 62109-1; IEC 62109-2
EMC: IEC 61000-6-1; IEC 61000-6-3
Battery: IEC 62619:2022; IEC 62040-1:2017; IEC 62040-1:2017/AMD1:2021

Certificate Holder:

ESYsunhome CO.,LTD
Pinghu Street, Longgang District
518118 Shenzhen, P.R. China

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Model	No. of Modules	Rated Output Power	Rated Capacity	Dimensions (L*W*H)	Weight
HM10-H-10	1	10 kW	10.54 kWh	660x270x1319 mm	166.25 kg
HM10-H-20	2	10 kW	21.08 kWh	660x270x1725 mm	262.5 kg
HM10-H-30	3	10 kW	31.62 kWh	660x270x2131 mm	358.75 kg
HM10-H-60	6	10 kW	63.24 kWh	(660x270x2131 mm)+(660x270x1448 mm)*1	670.7 kg
HM10-H-90	9	10 kW	94.86 kWh	(660x270x2131 mm)+(660x270x1448 mm)*2	980.25 kg

Parameters			
Battery Type	LiFePO4	Cooling Method	Natural Cooling
Cycle Life	≥6000 Times @ 25 °C, SOH=70%	Operating Temperature Range	-25~60 °C
Max. Efficiency	98.20%	Altitude	≤3000 m
MPPT Efficiency	99.90%	Humidity	0~100% Relative Humidity
Mounting	Modular Stacking/Ground	Noise Level	≤45 dB
Communication	LAN/Wi-Fi/USB/RS485/CAN	Protection Rating	IP66
Application Software Support System	iOS/Android/Web	Warranty	10 Years

PV Input		AC Output (Backup)	
Max. Input Power	20 kW	Rated Output Power	10 kW
Rated Input Voltage	650 Vd.c.	Max. Output Power	10 kVA
Max. Input Voltage	1000 Vd.c.	Rated Output Voltage	400 Va.c. 3L/N/PE
MPPT Voltage Range	160 Vd.c.~950 Vd.c.	Rated Output Frequency	50/60 Hz
PV Max. Input Current	16 Ad.c./16 Ad.c.	Rated Output Current	14.4 Aa.c.
Max. Short Circuit Current	24 Ad.c./24 Ad.c.	Max. Output Current	14.4 Aa.c.
MPPT	2	Current Harmonics	≤3% (Linear Load)
Starting Voltage	180 Vd.c.	Switching Time	≤10 ms

Battery		Protection	
Rated Operating Voltage	450 Vd.c.	Anti-islanding Protection	Yes
Voltage Range	150 Vd.c.~600 Vd.c.	PV Reverse Polarity Protection	Yes
Max. Charging Current	25 Ad.c.	Insulation Resistance Detection	Yes
Max. Discharging Current	25 Ad.c.	Residual Current Detection	Yes
Max. Charging Power	10 kW	Output Overcurrent Protection	Yes
Max. Discharging Power	10 kW	Output Short Circuit Protection	Yes
Protection	BMS/Software/Hardware/Fuse	Battery Reverse Polarity Protection	Yes

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