



TAKE THE SUN HOME

# HM12 (Single Phase)

## ALL-IN-ONE RESIDENTIAL ENERGY STORAGE SYSTEM



Easy Installation



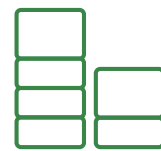
Temperature Resistance

IP66

IP66 Waterproof



24-hour Monitoring System



Expandable Capacity



Artificial Intelligence (AI) Operation

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## Parameters

MODEL	HM12-10	HM12-15	HM12-20	HM12-25	HM12-30
Battery Quantity	2	3	4	5	6
Max. Output Power (kW)	10	12	12	12	12
Battery Capacity ( kWh)	10.24	15.36	20.48	25.60	30.72
Dimensions (LxWxH mm)	600x305x998	600x305x1218	600x305x1438	600x305x1658	600x305x1878
Weight (kg)	143	193	243	293	343
Battery Type	IFpP				
Cycle Life	≥6000 Times 25 °C				
Conversion Efficiency	≥98 %				
MPPT Efficiency	99.9%				
Mounting	Modular Stacking/Ground				
Communication	WiFi/Bluetooth/4G				
Application Software Support System	iOS/Android/Web				
Cooling Method	Air Cooling				
Operating Temperature Range	-25~60 °C				
Optimum Operating Temperature Range	25±2 °C				
Humidity	0~100% Relative Humidity				
Noise Level	≤45 dB				
Protection Rating	IP66				
Warranty	10 Years				

## PV Input

Max. Input Power	18 kW
Rated Input Voltage	360 Vd.c.
Max. Input Voltage	550 Vd.c.
MPPT Voltage Range	100 Vd.c.~540 Vd.c.
PV Max. Input Current	30 Ad.c./30 Ad.c.
Max. Short Circuit Current	40 Ad.c.

## Backup

Rated Output Power	12 kW
Rated Output Voltage	230 Va.c. L/N/PE
Rated Output Frequency	50/60 Hz
Waveform	Sine Wave

## Battery

Rated Voltage	51.2 Vd.c.
Voltage Range	40.8 Vd.c.~57.6 Vd.c.
Rated Charge Current	100 Ad.c.
Rated Discharge Current	120 Ad.c.

## AC Grid

Rated Voltage	230 Va.c. L/N/PE
Input Voltage Range	184 Va.c.~276 Va.c.
Rated Current	52.17 Aa.c.
Rated Grid Frequency	50/60 Hz

## Protection

Anti-islanding Protection	Yes
PV Reverse Polarity Protection	Yes
Insulation Resistance Detection	Yes
Residual Current Detection	Yes
Output Overcurrent Protection	Yes
Output Short Circuit Protection	Yes
Overvoltage Category	II (for PV/Battery) III (for AC Grid Mains)
Battery Reverse Polarity Protection	Yes

## Applicable Standards

### Grid Connection:

AUS: AS 4777.2; CEC+RCM; 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; UK: G99/1-8 typeA; IE: Distribution Code Version 8; BE: C10/11:2021; CH: NA/EEA-NE7-CH:2020; FR: DINVDE 0126-1-1 VFR:2019; ES: NTS 631 V21 SEPE (type A); UNE 217001; UNE 217002; PT: RfG + Portugal deviation

### 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