



**ACADA**  
RENEWABLE EXPERIENCE

# HM12

## single phase



### IP66 Protection



### Cold Temperature Resistance



### Easy Installation



### 24/7 Monitoring System



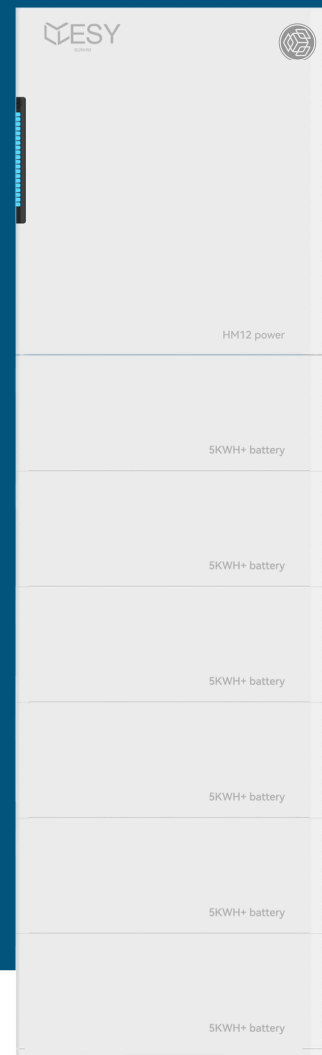
### Emergency Backup Power



### Artificial Intelligence



### Scalable System Capacity



#### Applicable Standards

##### Grid Connection:

**DE:** DIN VDE V 0124-100:2020; VDE-AR-N 4105:2018; **AT:** OVE Directive R 25:2020; TOR Erzeuger Type A V1.2;

**CH:** NA/EEA-NE7-CH:2020; **FR:** DINVDE 0126-1-1 VFR:2019 **PT:** RfG + Portugal deviation **BE:** C10/11:2021

**IT:** CEI 0-21; **ES:** NTS 631 V21 SEPE (type A); UNE 217001; UNE 217002; **UK:** G99/1-8 typeA; **IE:** Distribution Code Version 8;

##### Safety:

Inverter: IEC 62109-1; IEC 62109-2

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

Battery: IEC 62619:2022; ISO 13849

IEC/EN 62040-1; VDE 2510-050:2017

##### Certificate Holder:

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Model	No. of Modules	Max. Output Power	Usable Energy	Dimensions (LxWxH)	Weight
HM12-05	1	5 kW	5.12 kWh	600x305x778 mm	93 kg
HM12-10	2	10 kW	10.24 kWh	600x305x998 mm	143 kg
HM12-15	3	12 kW	15.36 kWh	600x305x1218 mm	193 kg
HM12-20	4	12 kW	20.48 kWh	600x305x1438 mm	243 kg
HM12-25	5	12 kW	25.60 kWh	600x305x1658 mm	293 kg
HM12-30	6	12 kW	30.72 kWh	600x305x1878 mm	343 kg

Parameters			
Battery Type	IFpP	Cooling Method	Air Cooling
Cycle Life	≥6000 Times 25 °C	Operating Temperature Range	-25~60 °C
Conversion Efficiency	≥98%	Optimum Operating Temperature Range	25±2 °C
MPPT Efficiency	99.9%	Humidity	0~100% Relative Humidity
Mounting	Modular Stacking/Ground	Noise Level	≤45 dB
Communication	WiFi/Bluetooth	Protection Rating	IP66
Application Software Support System	iOS/Android/Web	Warranty	10 Years

PV Input		Backup	
Max. Input Power	15.6 kW	Rated Output Power	12 kW
Rated Input Voltage	360 Vd.c.	Rated Output Voltage	230 Va.c. L/N/PE
Max. Input Voltage	550 Vd.c.	Rated Output Frequency	50/60 Hz
MPPT Voltage Range	100 Vd.c.~540 Vd.c.	Waveform	Sine Wave
PV Max. Input Current	30 Ad.c./30 Ad.c.		
Max. Short Circuit Current	40 Ad.c.		

Battery		Protection	
Rated Voltage	51.2 Vd.c.	Anti-islanding Protection	Yes
Voltage Range	40.8 Vd.c.~57.6 Vd.c.	PV Reverse Polarity Protection	Yes
Rated Charge Current	100 Ad.c.	Insulation Resistance Detection	Yes
Rated Discharge Current	120 Ad.c.	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

**ACADA GMBH**

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