



ACADA
RENEWABLE EXPERIENCE

HM6

single phase



IP66 Protection



Cold Temperature Resistance



Easy Installation



24/7 Monitoring System



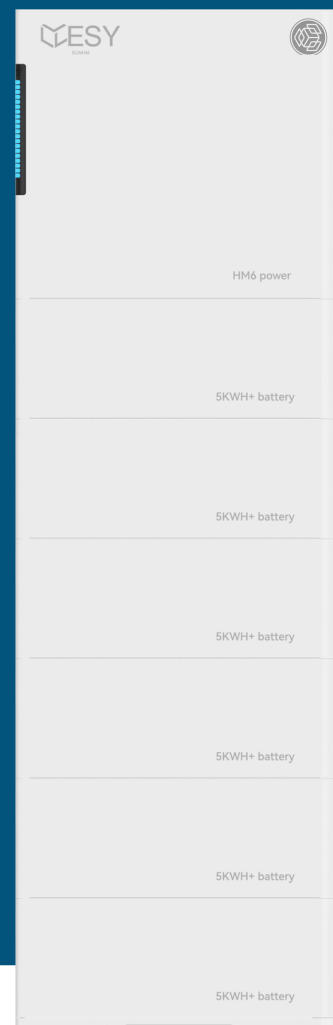
Emergency Backup Power



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 |
|--------|----------------|-------------------|---------------|--------------------|--------|
| HM6-05 | 1 | 5 kW | 5.12 kWh | 600x305x778 mm | 93 kg |
| HM6-10 | 2 | 6 kW | 10.24 kWh | 600x305x998 mm | 143 kg |
| HM6-15 | 3 | 6 kW | 15.36 kWh | 600x305x1218 mm | 193 kg |
| HM6-20 | 4 | 6 kW | 20.48 kWh | 600x305x1438 mm | 243 kg |
| HM6-25 | 5 | 6 kW | 25.60 kWh | 600x305x1658 mm | 293 kg |
| HM6-30 | 6 | 6 kW | 30.72 kWh | 600x305x1878 mm | 343 kg |

Parameters

| | | | |
|-------------------------------------|-------------------------|-------------------------------------|----------------------------------|
| Battery Type | IFpP | Cooling Method | Natural Cooling |
| Cycle Life | ≥6000 Times 25 °C | Operating Temperature Range | -25~60 °C (Derating above 45 °C) |
| Max. Efficiency | 97.8% | Optimum Operating Temperature Range | 25±2 °C |
| MPPT Efficiency | 99.9% | Humidity | 0~100% Relative Humidity |
| Mounting | Modular Stacking/Ground | Noise Level | ≤25 dB |
| Communication | WiFi/Bluetooth/DRM | Protection Rating | IP66 |
| Application Software Support System | iOS/Android/Web | Warranty | 10 Years |

PV Input

| | |
|----------------------------|---------------------|
| Max. Input Power | 8000 W |
| Rated Input Voltage | 360 Vd.c. |
| Max. Input Voltage | 550 Vd.c. |
| Starting Voltage | 150 Vd.c. |
| MPPT Voltage Range | 100 Vd.c.~540 Vd.c. |
| PV Max. Input Current | 15 Ad.c./15 Ad.c. |
| Max. Short Circuit Current | 20 Ad.c./20 Ad.c. |

Backup

| | |
|----------------------------|------------------|
| Rated Output Power | 6000 W |
| Max. Apparent Output Power | 6000 VA |
| Rated Output Voltage | 230 Va.c. L/N/PE |
| Rated Output Current | 26.09 Aa.c. |
| Rated Output Frequency | 50 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. |

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 |

ACADA GMBH

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