



TAKE THE SUN HOME

HM6 (Single Phase)

ALL-IN-ONE RESIDENTIAL ENERGY STORAGE SYSTEM



Easy
Installation



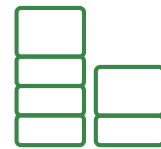
Temperature
Resistance

IP66

IP66
Waterproof



24-hour
Monitoring System



Expandable
Capacity



Artificial Intelligence
(AI) Operation

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Parameters

| MODEL | HM6-05 | HM6-10 | HM6-15 | HM6-20 | HM6-25 | HM6-30 |
|--|-------------------------------|-------------|--------------|--------------|--------------|--------------|
| Battery Quantity | 1 | 2 | 3 | 4 | 5 | 6 |
| Max. Output Power (kW) | 5 | 6 | 6 | 6 | 6 | 6 |
| Battery Capacity (kWh) | 5.12 | 10.24 | 15.36 | 20.48 | 25.60 | 30.72 |
| Dimensions (LxWxH mm) | 600x305x778 | 600x305x998 | 600x305x1218 | 600x305x1438 | 600x305x1658 | 600x305x1878 |
| Weight (kg) | 93 | 143 | 193 | 243 | 293 | 343 |
| Battery Type | IFpP | | | | | |
| Cycle Life | ≥6000 Times 25 °C | | | | | |
| Max. Efficiency | 97.8% | | | | | |
| MPPT Efficiency | 99.9% | | | | | |
| Mounting | Modular Stacking/Ground | | | | | |
| Communication | WiFi/Bluetooth/DRM/4G | | | | | |
| Application Software Support System | iOS/Android/Web | | | | | |
| Cooling Method | Natural Cooling | | | | | |
| Operating Temperature Range (°C) | -25~60 (Derating above 45 °C) | | | | | |
| Optimum Operating Temperature Range (°C) | 25+2 | | | | | |
| Humidity | 0~100% Relative Humidity | | | | | |
| Noise Level (dB) at 1m | ≤25 | | | | | |
| Protection Rating | IP66 | | | | | |
| Warranty | 10 Years | | | | | |
| Country of Manufacture | China | | | | | |

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. Output Apparent Power | 6000 VA |
| Rated Output Voltage | 230 Va.c. L/N/PE |
| Rated Output Current | 26.09 Aa.c. |
| 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 Input Power | 6000 W |
| Rated Output Power | 6000 W |
| Max. Output Apparent Power | 6000 VA |
| Rated Voltage | 230 Va.c. L/N/PE |
| Input Voltage Range | 184 Va.c.~276 Va.c. |
| Rated Current | 26.09 Aa.c. |
| Rated Output Frequency | 50/60 Hz |
| Power Factor Range | 0.8 leading~0.8 lagging |

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