



Polarium Home

Polarium Hybrid Inverter and LFP Battery Blade



Sleek Design and High Performance

Compact design through high energy density with minimal weight and volume. High round-trip efficiency with minimal energy losses.

Outdoor Performance & Safety

Designed to withstand diverse weather conditions for outdoor installation, the safest possible place for a battery installment. Easy to install and use.

Smart Communication and Connectivity

Wireless communication with smart energy-meters, monitoring the homes' consumption and any production.

Easy to use

User-friendly app for controlling and monitoring the battery system and home energy consumption. Installer app to simplify the installation process.

Modular for Expanding Power

Modular design allows for upgrading energy capacity. Capability to install multiple Polarium Home for expanding power or energy storage.

Designed in Sweden

Designed in Sweden to guarantee high quality and reliability with all software, firmware and cloud services developed within Europe.

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| Item | HES-13-09-06-320 | HES-13-18-12-320 |
|--|--|------------------|
| PV Input | | |
| Max. PV Power | 18 000 Wp | |
| No. of MPPT / No. of PV strings | 2 / 4 | |
| Max. PV String Voltage | 900 V | |
| MPP Voltage Range | 60 – 600 V | |
| Max. MPP Current (per MPPT) | 32 A | |
| Max. Short-Circuit Current (per MPPT) | 48 A | |
| AC Output | | |
| Rated Apparent Power [VA] | 6 000 | 12 000 |
| Maximum Active Power [W] | 6 000 | 12 000 |
| Rated AC Voltage [Vac] | 3/N/PE ~230/400 VAC | |
| Rated Frequency [Hz] | 50 | |
| Battery Input | | |
| Chemistry | LFP | |
| No. Battery Blades | 1 | |
| Rated Energy [kWh] | 13,8 | |
| Nominal Voltage [Vdc] | 700 | |
| Max. charge/discharge current [A] | 20 / 20 | |
| General | | |
| Dimensions [mm] | W 625 x D 250 x H 1406 | |
| Weight [kg] | 155 | |
| Operating Temperature [°C] | -20 to +45 | |
| IP Class | IP 65 | |
| Environmental Class | IEC 60721-3-4 (outdoor) | |
| Maximum Altitude | 3 000 m | |
| Radio | LTE, Wi-Fi (2.4 GHz), WPAN (868 MHz) | |
| Safety Standards | IEC 62477-1, VDE-AR-E-2510-50 IEC 62311 | |
| EMC | IEC 61000-6-1, IEC 61000-6-3 | |
| Grid Code Compliance | EN 50549-1, VDE-AR-N-4105 | |
| Standards Compliance (More Available Upon Request) | | |

Disclaimer: The data provided in this datasheet is for reference purposes only and is based on internal testing under specific conditions. While we strive for accuracy and consistency, specifications may be subject to minor changes without prior notice due to ongoing product improvements or variations in manufacturing and environmental factors.

