



# Polarium HomeBattery H12



## 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.

## Smart AI control

Smart autonomous control that takes into account your home's specific conditions and your real-time energy consumption. The system considers costs such as electricity prices, grid fees, and taxes.

## Designed in Sweden

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

## Polarium Hybrid Inverter and LFP Battery Blade

Item	HES-13-18-12-320
<b>PV input</b>	
Max. PV power	18 000 Wp
No. of MPPT / No. of PV strings	2 / 4
Max. PV string voltage (with battery)	650 V
MPP voltage range	60 – 600 V
Max. PV input current (per string)	16 A
Max. PV short-circuit current (per string)	24 A
<b>AC output</b>	
Rated Apparent Power	12 000 VA
Maximum Active Power	12 000 W
Rated AC current	17.4 A
Maximum AC current	19.1 A
Rated AC voltage	3/N/PE ~230/400 VAC
Rated frequency	50 Hz
<b>Battery input</b>	
Chemistry	LFP
No. Battery blades	1
Rated energy	13,8 kWh
Nominal voltage	691 Vdc
Battery voltage range	650 – 755 V
Max. charge/discharge current	20 / 20 A
<b>General</b>	
Dimensions	W 630 x D 250 x H 1410 mm
Weight	150 kg (Battery 101 kg, Inverter 21 kg, backplate 28 kg)
Operating temperature	-20 to +45 °C
Relative Humidity	4% – 95% / condensing
Overtoltage Category	AC: III / PV: II
IP Class	IP 65 (Inverter & Battery)
Maximum Altitude	3 000 m
Radio	LTE, Wi-Fi (2.4 GHz), WPAN (868 MHz)
Environmental Class	IEC 60721-3-4 (outdoor)
Safety Standards	EN/IEC 62109-1, EN/IEC 62109-2 DIN VDE-AR-E-2510-50
EMC	EN/IEC 61000-6-1, EN/IEC 61000-6-3
Grid Code Compliance	EN 50549-1, VDE-AR-N 4105

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

