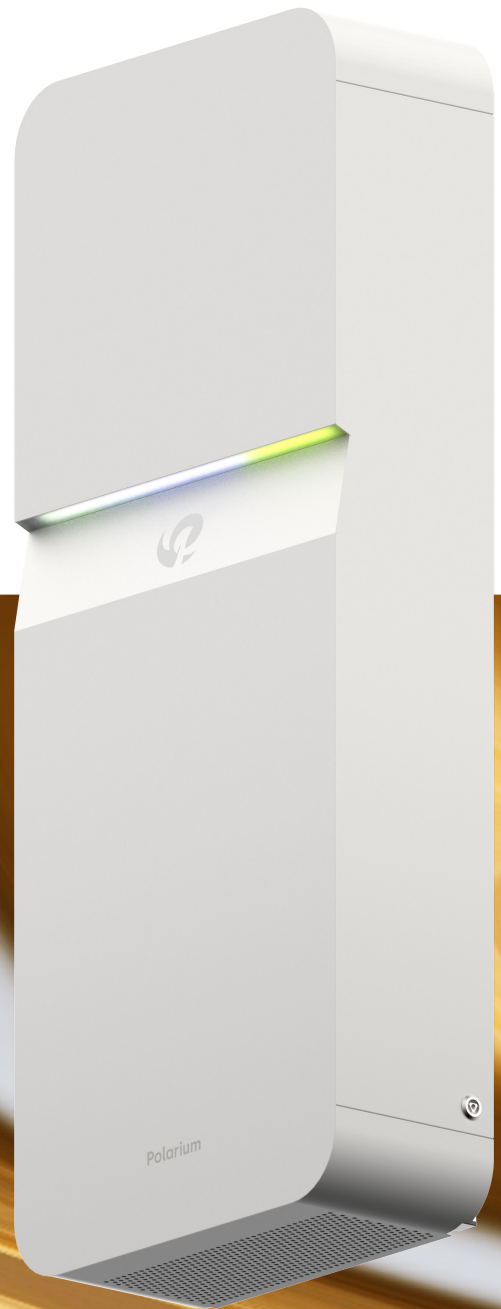




Polarium Home Portfolio

**All-in-One Modular Home Energy
Storage Systems Delivering
Maximum Efficiency,
Adaptability and Scalability**



All-In One System to Future Proof Your Home with Unmatched Flexibility, Performance, Safety and AI

Polarium Home is engineered for seamless integration and high-performance, combining advanced hardware, digital capabilities and AI with award-winning Scandinavian design.

Polarium Home simplifies your experience without compromising on performance or design. With a modular and configurable portfolio, the system is ready to meet the diverse demands of different markets, use cases, and consumer needs.

Always On, Always Working, Always Thinking

Polarium Home is our next-generation All-in-One Home Energy Storage System, redefining resilience, simplicity, and maximum efficiency for households globally. Engineered and developed in the Nordics, Polarium Home combines premium design, cutting-edge performance, and effortless scalability, empowering homeowners, installers, and energy partners with a complete solution tailored for today—and tomorrow. Polarium Home is simple to install, easy to use, smart and safe over the entire life-time.

True European Premium Offering at an Affordable Price Point



THE BENEFITS

Robust Design & Full Outdoor Capability

European high-quality product that is designed to fit any home. With full operational capability through harsh conditions & ruggedized environment spanning between -20 to +45 degrees. Every component is IP65 classified to enable installation outside in any weather condition. Built in heating and cooling.

Physical Safety & Reliability

Fullfilling the highest standards of safety requirement, enabled by the unique cylindrical cell formfactor. Making high power use-cases safe and reliable while storing energy in your home.

Cyber Security with European Software

Keeping to European software ensures highest level of cyber-security and data management for your privacy needs.

Highest Performance & Efficiency

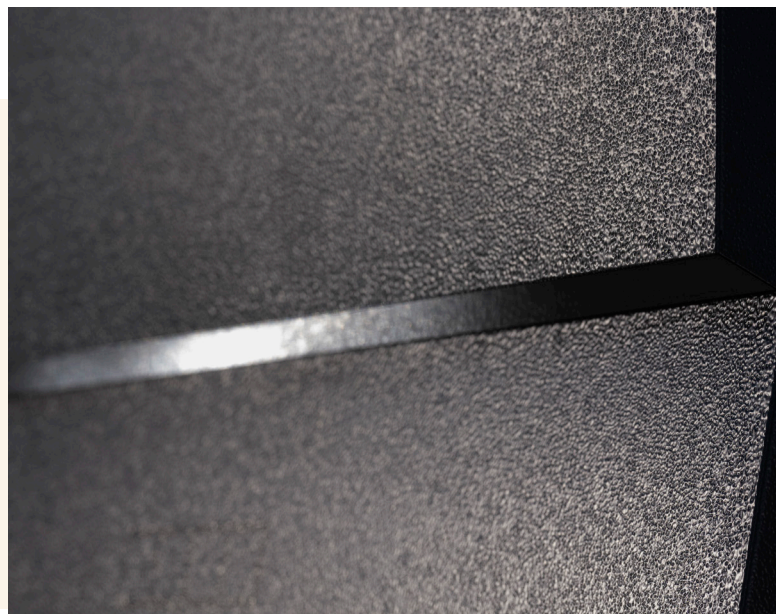
Outstanding efficiency avoiding huge amounts of energy losses over the battery-systems lifetime compared to alternatives. Enabled by unique battery and power conversion technology.

Connectivity and Cost-Effective VPP-Access

Integrated 4G & Wifi-connectivity together with wireless smart meters together with smart energy management system enables VPP-access, whitout additional investments in hardware, and/or lenghty integrations.

Controlling and Monitoring Simplicity

In the app you can easily control and monitor your system. The support and service team monitors the system ensuring the best possible support and corrective maintenance.



One System. Total Control.

At its core is a hybrid inverter that manages both solar and battery power in a single intelligent unit. Dual MPPTs (Maximum Power Point Trackers) boost solar efficiency, while smart software, cloud connectivity, and open APIs enable instant integration with VPPs and home energy platforms—no extra hardware required.

Powerfully Simple. Surprisingly Fast.

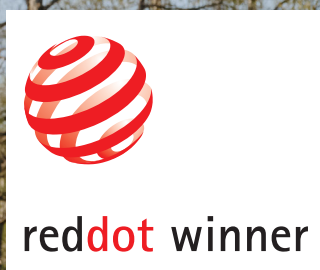
Polarium Home installs in an average of 2 hours including wiring and prep on site, with the fastest installation time being 45 minutes, making it the quickest all-in-one system to set up on the market. Assembly, testing and commissioning for cloud only takes a few minutes. The IP65-rated system is ready for both indoor and outdoor environments—rain, shine, or snow.

Safe. Scalable. Swedish Engineered.

The modular LFP battery is built for real-world use: Safe cylindrical cell design, ultra-fast install, and scalable between 6.7 kWh to 220 kWh by connecting 16 Polarium Home systems in parallel. Perfect for any household including single family homes, multi-family homes and commercial buildings. Designed and developed in Sweden, it brings Nordic safety, reliability, and aesthetics into every household.

Highest Standards in Safety

- Third party certificates covering the highest European safety standards to ensure the battery is proven safe by external actors.
- Five-levels of safety within the battery-module, including for example integrated temperature sensors, cell-pack design, mechanical and digital fuses, with an integrated BMS in each battery having control of all safety aspects.



Easy-to-Use, Smart, Safe and Powerful

The System Enables:

Real-time Monitoring

Complete system visibility

Remote control and over the air updates

Full device management on your phone

Installer Friendly - One app does it all



Wire-less Smart Metering Built in

Smart Meters measures consumption from grid, power from PV and inverter enabling local control of system without integration work nor cabling.

Connectivity and VPP Enablement

- 4G & Wi-fi connectivity.
- API-enabled making control of the asset easy for VPP-and HEMS actors.

Local EMS

EMS with local optimization and dynamic response enabling price arbitrage and peak shaving.

Frequency Measured Locally in System

In built frequency market capability – response-metrics for FCR & FFR markets of all safety aspects.



An All-in-One System with a Cloud Solution – Enabling Value Creation in no Time



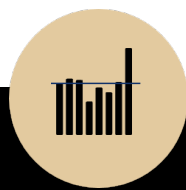
Solar Self Consumption

Environmentally friendly
Li-Ion batteries combined
with renewable solar PV
production



Cut Energy Cost

Lower your energy bill
by optimizing cost per
kWh



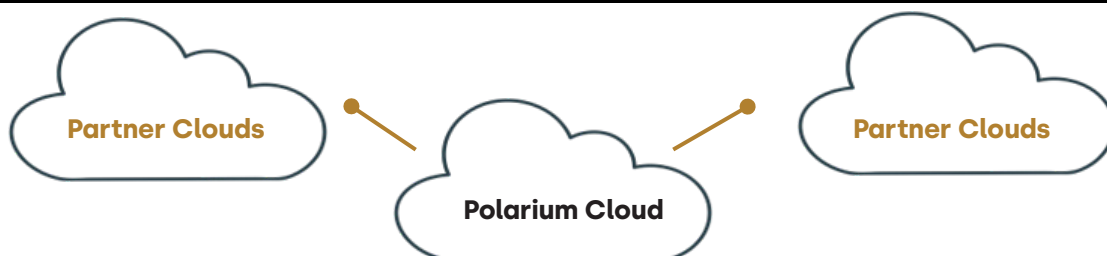
Peak Shaving

Reduce peak power to
save money on demand
charges and grid
tariffs



Instant VPP Enablement

Participate in demand re-
sponse and frequency reg-
ulation market or demand
response programs



Wi-fi, radio, 4G connectivity and real-time smart metering

1. Bi-directional Hybrid inverter including connectivity and smart metering technology.

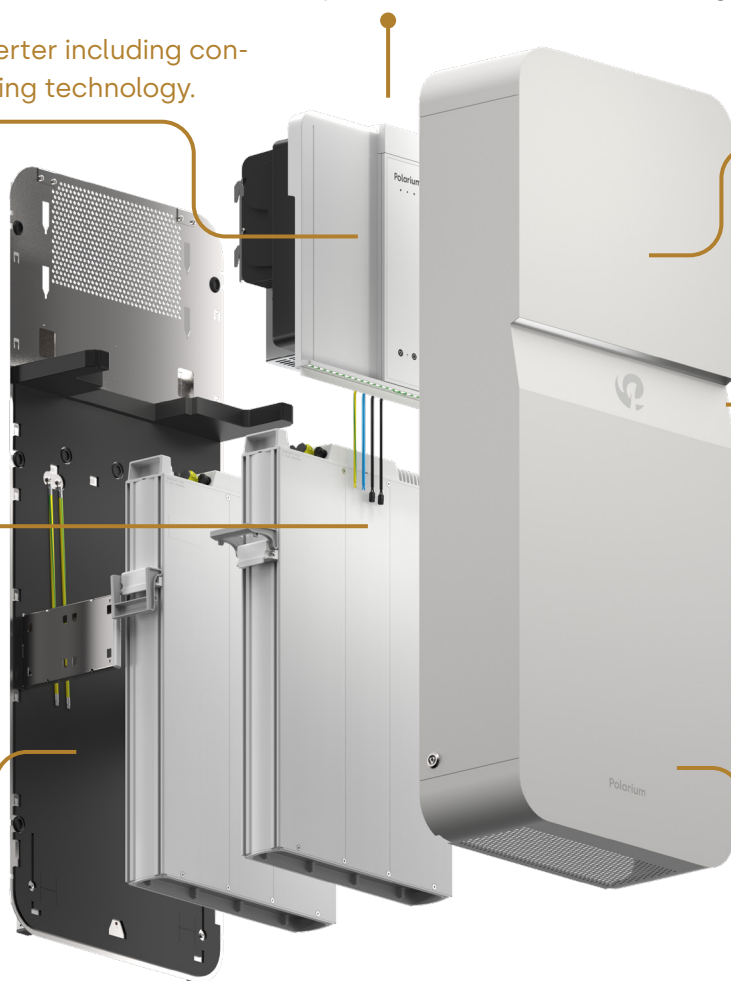
2. Modular battery capacity levels of 6.6-27.6 kWh build on either LFP (iron-based) or NMC (nickel-based) technology.

3. Easy and seamless installation in approx. 2 hours. Fastest installation in just 45-minutes.

4. Award winning Scandinavian design.

5. LED-indicator that communicates and interacts with the user.

6. Water and dust proof with IP65 certification on every component (allow for both outdoor and indoor installations).



Polarium Home is Built on a Modular Product Portfolio That can be Easily Configurable

Hybrid Inverter

- 3-Phase Inverter
- 1-Phase Inverter (in roadmap)
- High-voltage
- 6-12kW Power
- 18kWp Solar
- Integrated Island Mode (in roadmap)



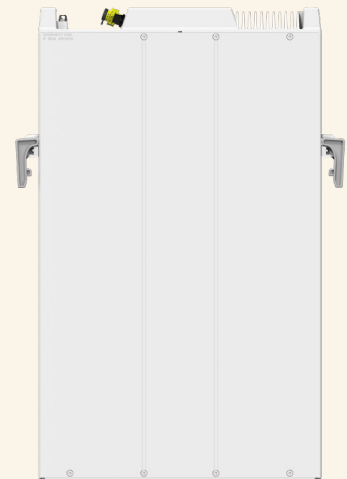
Battery Modules

Iron-Based (LFP)

- Service Life 10-years, 6,000 Cycles
- High-voltage (600-800V)
- Large: 13.8-27.6kWh Capacity per Inverter

Nickel-Based (NMC/NCM)

- Service Life 10-years, 4,000 Cycles
- High-voltage (600-800V)
- 6.65-13.3 kWh Capacity per Inverter



Value Added Product and Services

- | | |
|-----------------------------------|------------------------------|
| • 5G / Radio / WI-FI Connectivity | • Sales Training and Support |
| • Smart Metering included | • Marketing Toolbox |
| • Fleet Management | • Service Training & Support |
| • BTM Energy Management | • Service Digital Toolbox |
| • VPP and Market Access | • Performance Monitoring |
| • Installer Mobile Application | • Extended Warranty |
| • Consumer Application | • End-of-Life Management |

Cover/Backplate



Polarium offers white-labeled solutions

This is Polarium

Unlock Endless Energy

Polarium is a Swedish energy storage developer, founded in 2015 on the conviction that safe, smart and sustainable energy storage solutions will be key to empower the transition to a truly sustainable energy future. We are an impact business contributing to the sustainable energy transformation by enabling renewables, electrification and intermittent power supply.

We make energy storage and optimization solutions built on lithium-ion battery technology for businesses within telecom, commercial and industrial facilities across the world. We maximize value creation for our customers through our cutting-edge technology and a three-fold product offering of battery modules, battery energy storage systems and energy optimization systems as well as associated services.

Our easily adaptable modular battery technology enables us to be in the forefront of developing state-of-the art sustainable energy storage and optimization solutions for today – and tomorrow.

Developed in Sweden – Powering the World

Polarium's headquarters and R&D center are based in Sweden, with production operations in Sweden, South Africa, and Vietnam, allowing us to serve customers worldwide—from Ghana to Svalbard. Today, Polarium's solutions are in use across all climate zones, enabling our customers to reduce energy costs and carbon footprint.

Contact us at
home@polarium.com



red**dot** winner

