

Why should you choose Polarium batteries?

Polarium's lithium batteries are of superior quality and made to stand the test of time. The modular battery solutions will adapt to your evolving needs and provide safe and sustainable energy. With our unparalleled combination of state-of-the art batteries and digital tools, we ensure the best energy solution for your company - today and tomorrow.

What is a Polarium battery?

It is a series of smart, strong, and safe lithium-ion batteries. Our Battery can either be used to store reserve power on its own, or as a foundation for all other Polarium products. Add our Operational Services and Business Services to any of our products to ensure simple installation, operation, maintenance, monitoring, protecting and control.

Are Polarium batteries better than lead-acid batteries?

Giving you peace of mind. Polarium's lithium batteries have many benefits compared to lead-acid batteries: half of the volume, a quarter of the weight and five times the energy density. This gives our batteries a longer service life, especially in cyclic environments.

What are Polarium low voltage batteries?

Polarium offers a wide range of low voltage batteries with different capacities and both form factors of indoor rack mounted battery units and compact form factors of outdoor battery units. Polarium's low voltage batteries contain our patented Current Limiting Device (CLD(TM)) that controls charge current and enables automatic balancing of modules.

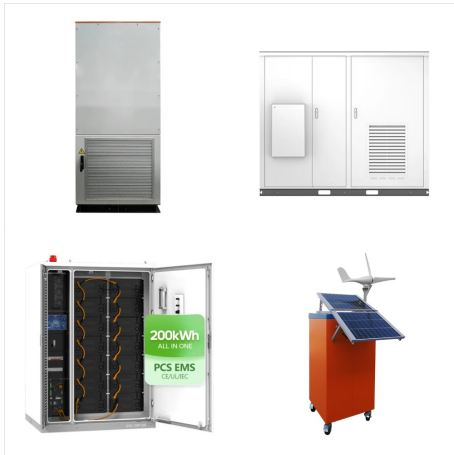
Can a Polarium battery be used as energy storage?

"I'm not even allowed in there," says Stefan Jansson, the CEO of Swedish energy storage scaleup Polarium. But in the rooms he can go into, his company is assembling battery cells into modules, setting them up with "state of the art" electronics and software then turning them into ready-to-ship, next-generation energy storage systems.

What do Polarium batteries look like?

The cells that battery manufacturers deliver to Polarium look similar to the normal, large cylindrical batteries you would buy in a shop. "We believe in a small size like this," Jansson says and points at a row of

cells assembled together.



The "Green" range consists of some of Polarium's most popular energy storage products built with Northvolt's lithium-ion battery cells. At first, Polarium "Green" products will be available exclusively for the telecom ???



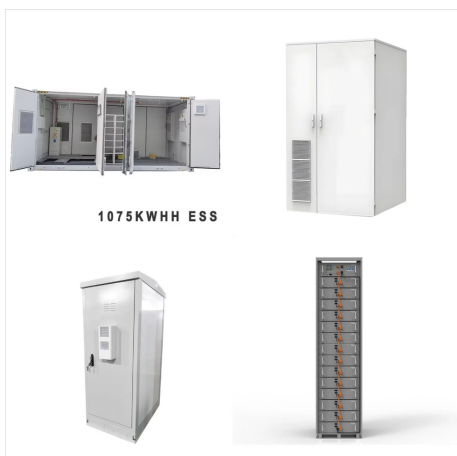
Polarium Batteries. Overview Liquid Cooling Options for Data Centers Battery Energy Storage System Transitioning to 5G Lithium-ion Technologies UPS Types What is a Rack PDU The Edge Revolution Vertiv Data Center Security Solutions Customer Case Studies



Polarium 23" 2U 100Ah Lithium NMC Battery Specifications: Compact design in 23" mounting, 2U height and 560 mm depth. Nominal 100 Ah / -48 V. Exceptional life; 20 years or 6000 cycles at 80% DoD. Safe every step of the way ??? from transportation to implementation and maintenance.



Why Polarium . Climate change is the biggest challenge of our time. CO2 emissions need to decrease by half every decade until 2050 in order to reach net zero. Our lithium battery modules eliminate the first two reasons for theft. And to make resell unattractive, our batteries contain anti-theft features and are prepared for an optional GPS



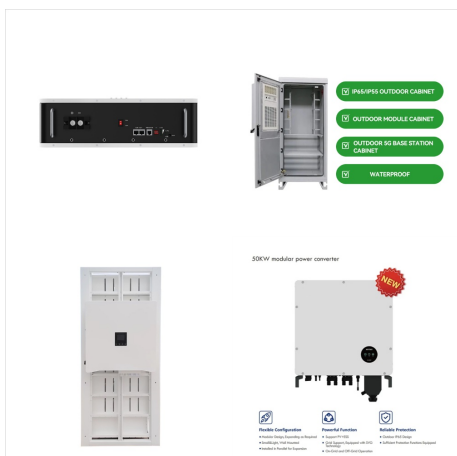
Polarium SLB48-250-146-2 BATTERY 19" 4U / 250AH 14S SERIES, GENERATION 5 is an advanced power backup system for telecom use. It's rechargeable smart lithium-ion battery provides reliable power backup for hybrid, off-grid and grid-connected telecom sites.



The "Green" range consists of some of Polarium's most popular energy storage products built with Northvolt's lithium-ion battery cells. At first, Polarium "Green" products will be available exclusively for the telecom segment but will at a later stage be made available for the commercial and industrial segments.



Instead of making batteries, it purchases lithium-ion battery cells and develops commercial solutions for storing renewable energy. The cells that battery manufacturers deliver to Polarium look similar to the normal, large cylindrical batteries you would buy in a shop. "We believe in a small size like this," Jansson says and points at a row



For more information about Polarium's lithium-ion batteries, technology, and energy storage solutions please contact us to obtain a quote for your project, Utility Battery Solutions Ltd. (UBS)
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Polarium has certified its Smart Lithium Batteries??? in accordance with UL1973 and UL62368 for the US and Canadian markets. This is one of the first, if not the first time ever that telecom lithium batteries have been certified to these standards as a stand-alone battery. Behind the certification are years of focused hard work in research



This is where Polarium's battery dictionary comes into play. Designed to demystify the technical jargon, our dictionary offers clear and concise definitions of key terms, components, and technologies related to batteries. A nickel-based lithium-ion battery cell chemistry. NMC batteries can be optimized for energy, power, or lifecycle



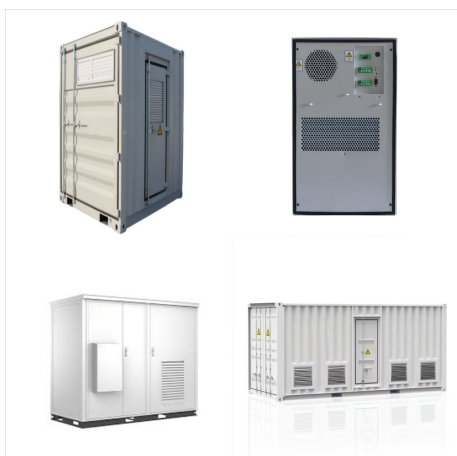
Polarium Battery Energy Storage System; Polarium Energy Optimization System; Residential Battery; Our Services; Customer Segments; Why Polarium; Why Polarium; Technology; The Energy Future; News & Customer Cases; Newsroom Keep up with the latest and read our in-depths articles. Get the latest news from Polarium. Sign up to receive monthly



Let's take a virtual tour with Stefan Jansson, founder and CEO of Polarium, through our new lithium-ion battery manufacturing plant in Cape Town, South Africa. We're taking energy storage to the next level by designing smart batteries to last a 20-year lifetime and with the highest energy density on the market.



Introducing the Polarium SLB48-250-146-2S lithium-ion battery module, a cutting-edge energy storage solution renowned for its exceptional efficiency and high power density. Engineered in Sweden as a dependable backup power system, the Polarium lithium-ion 48V / 250Ah battery module is equipped with a range of innovative features that prioritise



Cylindrical cells, like an ordinary AA or AAA battery, are generally named XXYY for lithium-ion batteries, where XX is the cells' diameter in millimeters and YY is the cells' height in millimeters (sometimes an extra zero is added in the end, e.g. 18650).



High energy density battery. Compact design in 19" mounting, 4U height and 420 mm depth; Nominal 100 Ah / -48 V; Exceptional life; 15 years or 4000 cycles at 80% DoD Join our newsletter. Get the latest news from Polarium. Sign up to receive monthly news about energy storage solutions, innovations, the energy future and industry events



With a yearly production potential of more than 300,000 batteries, the facility further increases Polarium's presence in sub-Saharan Africa. ATC Africa signed a multimillion-dollar lithium-ion battery bulk purchase agreement with Polarium in 2021, securing thousands of lithium-powered backup solutions for ATC Africa's markets over the



Phone: +46 8 5454 4000 | info@polarium | Polarium Battery is an advanced power backup system. Its rechargeable smart lithium-ion battery provides reliable power backup for hybrid, off-grid and grid-connected sites worldwide. Enclosure Size 19" 4U Lithium Chemistry Nickel based Rated Voltage 48 V



Polarium's lithium batteries have many benefits compared to lead-acid batteries: half of the volume, a quarter of the weight and five times the energy density. This gives our batteries a ???



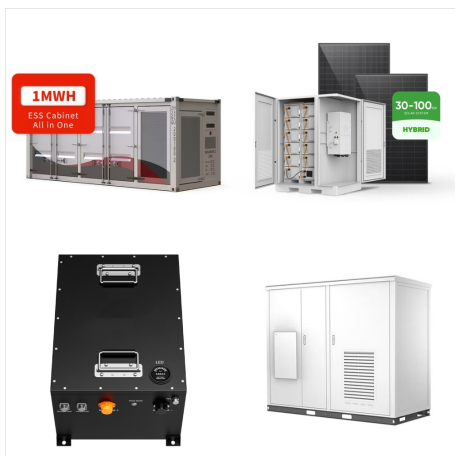
Polarium's lithium-ion battery measures internal battery temperature and adjusts output and input to prevent excessive temperature increases. It does this by enabling the battery to continue to operate as long as possible until it reaches a temperature limit. When this occurs, it begins to reduce charge function to inhibit temperature



Polarium Battery is an advanced power backup system for telecom use. Its rechargeable smart lithium-ion battery provides reliable power backup for hybrid, off-grid and grid-connected telecom sites worldwide. Enclosure Size 19" 4U Lithium Chemistry LFP Rated Voltage 48 V Rated Capacity Ah (0.2C, 25°C to 39 V) 150 Ah



Instead of making batteries, it purchases lithium-ion battery cells and develops commercial solutions for storing renewable energy. The cells that battery manufacturers deliver to Polarium look similar to the normal, large ???



Polarium Batteries. Working with our Vertiv Sales team enables complex designs to be configured to your unique needs. If you are an organization seeking technical guidance on a large project, Vertiv can provide the support you require.



Polarium 19" 4U 100Ah Iron Based Lithium Battery Specifications: Compact design in 19" mounting, 4U height and 420 mm depth. Nominal 100 Ah / -48 V. Exceptional life; 15 years or 4000 cycles at 80% DoD. Safe every step of the ???



Polarium Battery is an advanced power backup system. Its re-chargeable smart lithium-ion battery provides reliable power backup for hybrid, off-grid and grid-connected sites worldwide. Polarium Energy Solutions AB Jan Stenbecks Torg 17 | PO Box 1037 | SE-164 21, Kista, Sweden Phone: +46 8 5454 4000 | info@polarium |



With commonly available lithium cells, this means that a lithium-ion battery module with the same performance (rated voltage and capacity) as a corresponding lead-acid battery, weighs approximately a fifth of the lead battery and approximately a third of the volume. In late 2023, Polarium initiated a partnership with the Swedish sodium-ion



Polarium. Polarium is a Swedish company dedicated to providing the best-performing, safe, and sustainable energy storage solutions built on lithium-ion technology. Polarium provides energy storage battery solutions for the telecom, commercial, and industrial segments. Alpine Power Systems is a proud provider of Polarium lithium battery solutions.



Polarium 19" 4U 250Ah Lithium NMC Batteries can be used for both backup and hybrid applications, keeping your network up-and-running irrespective of energy sources used. Polarium Battery is an advanced power backup system for telecom use. Its rechargeable smart lithium-ion battery provides reliable power backup for hybrid, off-grid and



Polarium Battery is an advanced power backup system for telecom use. Its rechargeable smart lithium-ion battery provides reliable power backup for hybrid, off-grid and grid-connected telecom sites worldwide. Alpine Power Systems is a proud provider of Polarium lithium batteries. Foot print designed to directly replace 100 Ah VRLA batteries.



Polarium Battery. Polarium Battery is at the core of our product range. It is a series of smart, strong, and safe lithium-ion batteries. Our Battery can either be used to store reserve power on its own, or as a foundation for all other Polarium products.