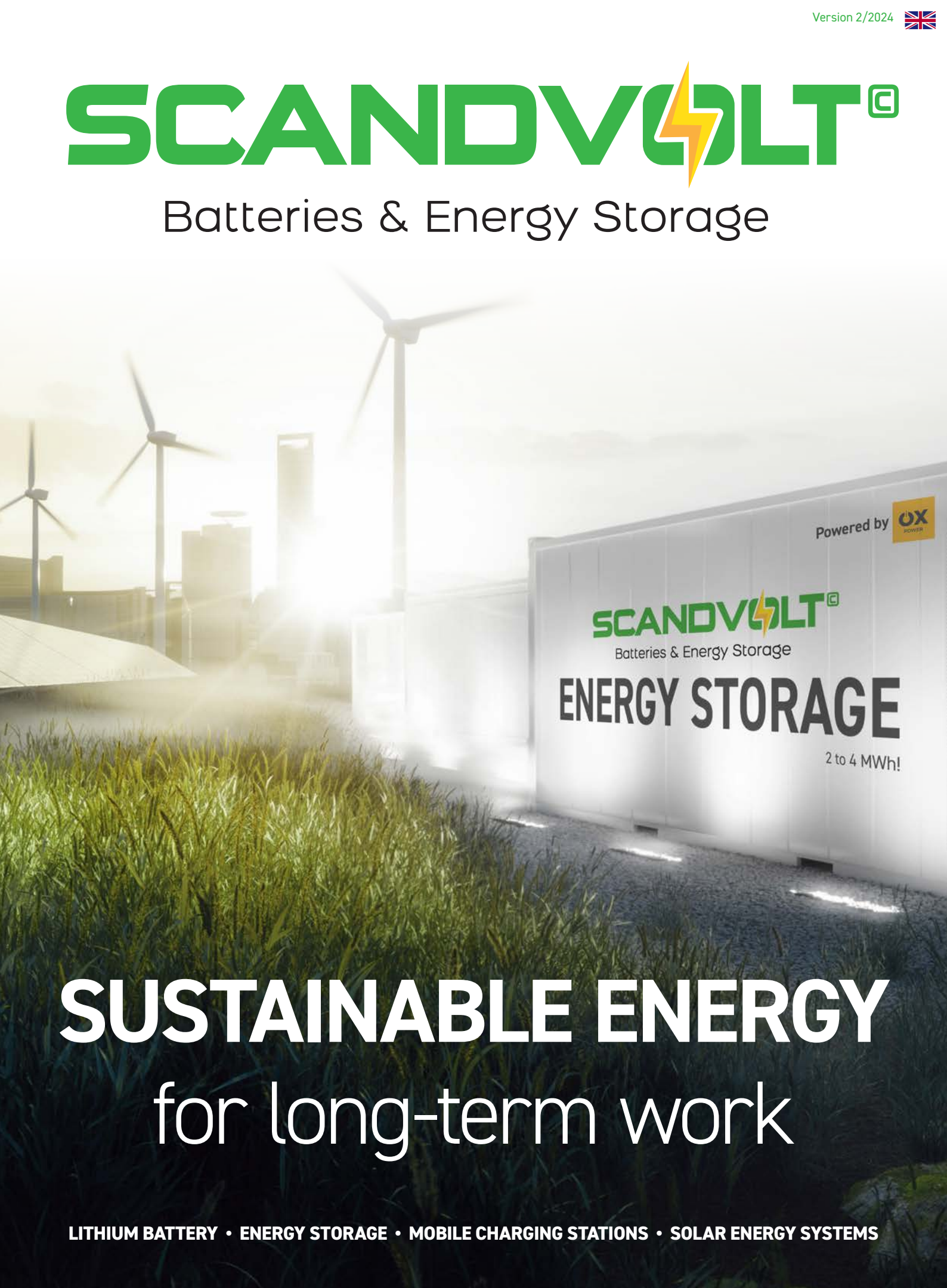
# SCANDVOLT

Batteries & Energy Storage




# SUSTAINABLE ENERGY

## for long-term work

**LITHIUM BATTERY • ENERGY STORAGE • MOBILE CHARGING STATIONS • SOLAR ENERGY SYSTEMS**

**www.scandvolt.se • 031-773 04 40 • info@scandvolt.se**

# SYSTEMS THAT HAVE
## EVERYTHING PRACTICE REQUIRES!

## CONTENTS



OX POWER

Your latest generation of machines requires a sustainable power source - a battery system that contributes to a cleaner world.
**THAT'S OX POWER.**

If you see a **QR CODE**, you can scan it with your mobile to get **price information** and more **info about our products!**

**DOWNLOAD PRODUCT INFO!**

# LITHIUM BATTERY

## TWO SYSTEMS THAT HAVE EVERYTHING PRACTICE REQUIRES!

With OX Power, you can benefit from **a sustainable and powerful battery system** for your machines. The battery systems are compact and can be quickly integrated into both new and existing systems, ensuring **a seamless transition**. Due to its high energy density, long lifespan, and minimal performance degradation with frequent charging and discharging, the OX Power battery system offers **reliable and efficient performance even under tough conditions.**

**PRODUCT INFORMATION**


## WHAT MAKES OUR LITHIUM BATTERIES UNIQUE?

- **SA Series:** Standalone batteries that can be connected singly or in parallel up to 102Vdc.
- **CA Series:** Combined batteries that can be connected in series up to 26 units and expanded in parallel up to 1000Vdc.
- **Safe LiFePO4 technology:** Our lithium batteries use LiFePO4 technology, providing a higher safety level than traditional lithium-ion batteries.
- **High energy density:** Our batteries offer high energy density, resulting in longer lifespan and higher capacity.
- **Modular design:** Our lithium batteries are designed to be modular, allowing them to be adapted to different applications and requirements.
- **Operating Temperature:** -30 to +60 °C
- **Long lifespan:** Our lithium batteries have a proven long lifespan, so you don't have to invest in replacement batteries as often.
- **Minimal performance:** Frequent discharging and charging with minimal performance degradation.
- **Low and high voltage systems:** We offer both low and high voltage solutions to meet energy needs across a wide range of applications.
- **Plug and play:** Our lithium batteries are easy to install and use, so you can immediately benefit from the advantages of electrification.
- **Environmentally friendly:** Our lithium batteries are environmentally friendly, allowing you to reduce your CO2 emissions and contribute to a more sustainable world.
- **Works in many systems:** Easy to use in both new and existing systems.
- **Flexible production capacity:** Thanks to our production capacity, we handle both large and small orders, perfectly responding to your needs.


### RECYCLABLE

Due to our modular structure, a lithium battery can still be used for a second life. After that, the battery is easy to dismantle and separate for optimal recycling.


### WATERPROOF

Our batteries are widely applicable. They can be used in all kinds of environmental conditions. Due to the IP67 rating, the battery is also waterproof.


### DATA LOGGING

Important data has been logged and can be easily read for service and R&D purposes. System variables, control actions, events, and errors can be read via Bluetooth or CANbus.

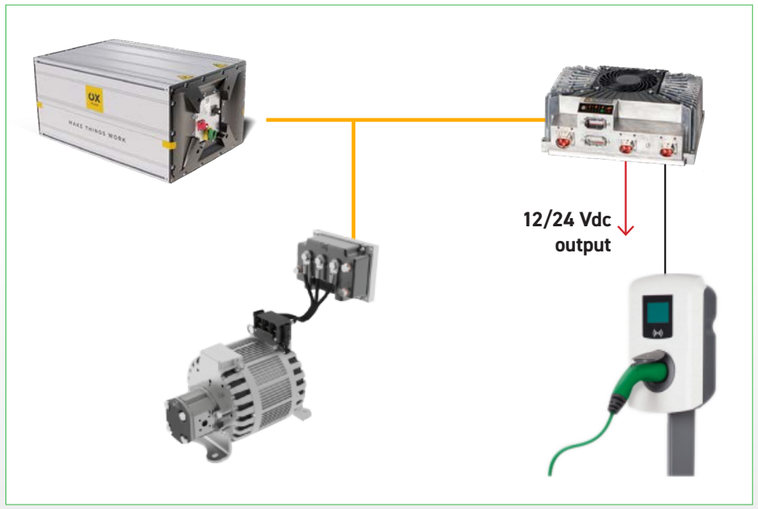


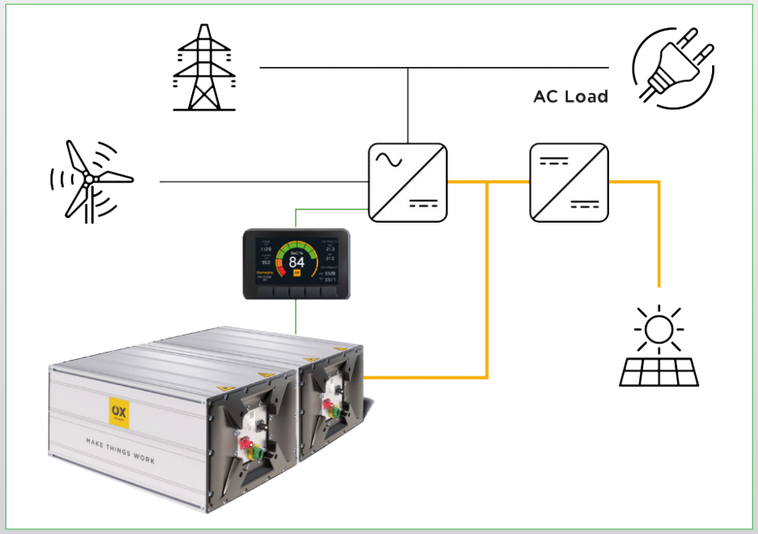
# AMBITION IS GOOD, BUT SOLUTIONS ARE BETTER

Our powerful and compact lithium batteries are specially designed to **integrate seamlessly and easily into your equipment**, allowing you to benefit from optimal performance without further adjustments. Thanks to smart design and advanced technology, our batteries are ideal for intensive working days and provide **reliable energy supply** even under the most challenging conditions.

OX POWER

### SYSTEM EXAMPLES:



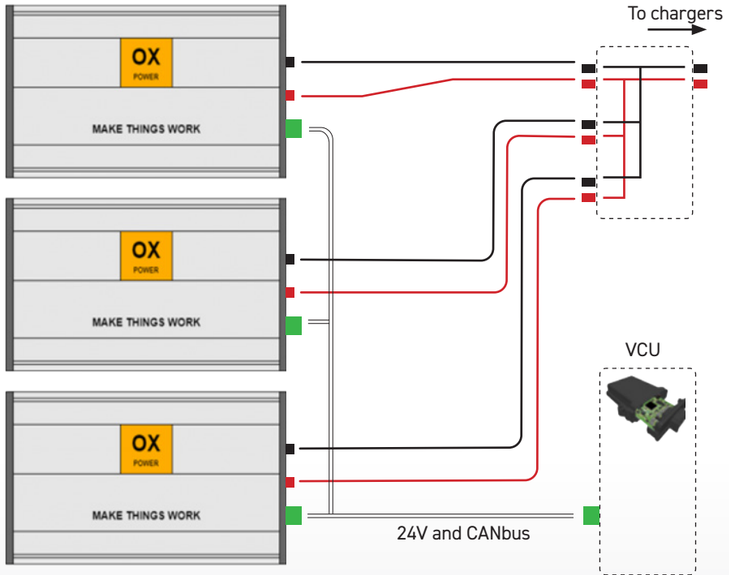




### APPLICATIONS:



# SA SERIES

## THE MODULAR BATTERY SYSTEM STANDALONE. SYSTEM VOLTAGE UP TO 102 VDC.




### SA BATTERY MODULE

The SA battery module is selected depending on the desired voltage, capacity, and available space. The voltage can be built up individually or in parallel from 26 Vdc to 102 Vdc.

**Max in parallel**

**LITHIUM BATTERY SA 26 V - 8.35 KWH**

SEE THE PRICE!

**LITHIUM BATTERY SA 26 V - 4.2 KWH**

SEE THE PRICE!

**LITHIUM BATTERY SA 51 V - 8.35 KWH**

SEE THE PRICE!

**LITHIUM BATTERY SA 51 V - 16.7 KWH**

SEE THE PRICE!

**LITHIUM BATTERY SA 76 V - 12.51 KWH**

SEE THE PRICE!

**LITHIUM BATTERY SA 102 V - 16.7 KWH**

SEE THE PRICE!



# CS SERIES

## THE COMBINED BATTERY SYSTEM IN SERIES. SYSTEM VOLTAGE UP TO 1000 VDC.


### CS BATTERY MODULE

The CS battery module is selected depending on the desired voltage, capacity, and available space. The voltage in series can be built up from 80 Vdc to 1000 Vdc.

**CS POWER DISTRIBUTION UNIT (PDU)**

SEE THE PRICE!

**LITHIUM BATTERY CS 51 V - 8.35 KWH**

SEE THE PRICE!

**LITHIUM BATTERY CS 38.4 V - 12.51 KWH**

SEE THE PRICE!

**LITHIUM BATTERY CS 76.8 V - 12.51 KWH**

SEE THE PRICE!

**LITHIUM BATTERY CS 70.4 V - 22.95 KWH**

SEE THE PRICE!

### SYSTEM ACCESSORIES:

To complete your system, OX Power can provide several accessories.

Certified lifting tools for safe and easy lifts.


Displays to visualize battery system data for users.

# ENERGY STORAGE

## THE ENERGY STORAGE SYSTEM THAT OPERATES FOR MANY HOURS

Your **latest generation** system requires a **sustainable power source** – an energy storage system that contributes to **a cleaner world**. That's OX Power. They develop and deliver energy storage systems that are both **powerful and compact**. Which you can distribute quickly. And designed for a hard day's work.

### 1 CURRENT SITUATION

- **Electrification of society.**
- **New demands for fossil-free and green energy as well as noise- and odor-free environments!**
- **The power grid has capacity shortages with fluctuating electricity prices throughout the day.**

### 2 SOLUTION

- **Robust mobile energy storage.**
- **Energy B-OX TRAILER with long lifespan and high safety.**
- **Modular design with 100 or 150 kWh battery modules containing safe lithium iron phosphate cells (LiFePO4).**
- **Dust and waterproof certified according to IP 67.**

### 3 RESULT

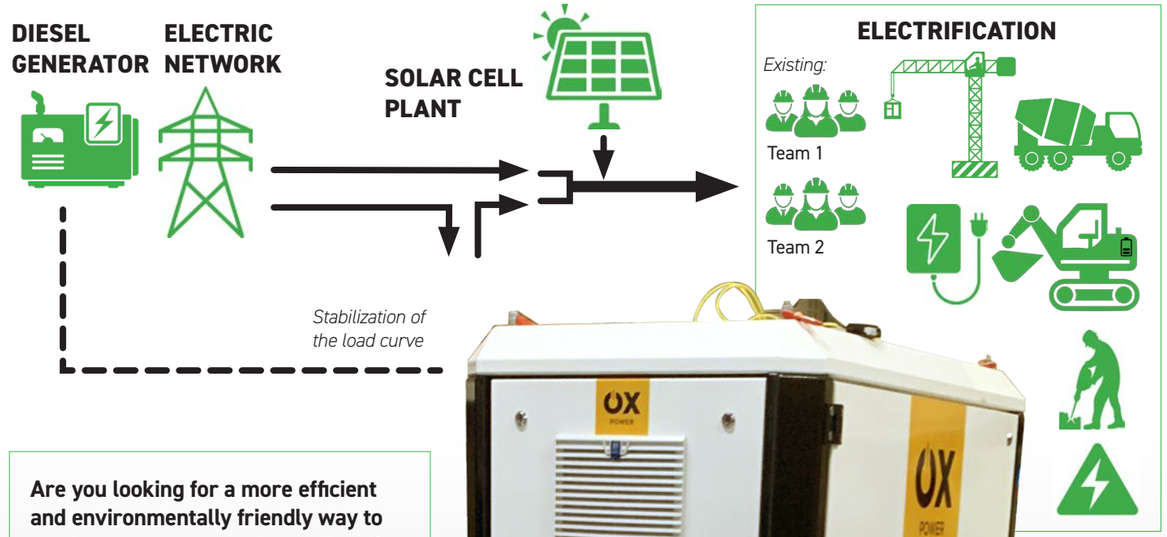
- **Secured power supply for construction sites.**
- **Fossil-free, battery-powered mobile power that meets new strict environmental requirements regarding emissions, noise, and odor.**
- **Operates off-grid, in combination with the power grid (on-grid), or together with diesel generators (hybrid).**
- **Worry-free electric vehicle charging.**
- **A new concept for companies in machine rental and construction industries.**

**PRODUCT INFORMATION**




# TAKE A SUSTAINABLE LEAP IN THE CONSTRUCTION INDUSTRY WITH ELECTRIFICATION

**OX POWER B-OX:** Meets tough environmental demands/CO2 reduction.




**Are you looking for a more efficient and environmentally friendly way to conduct your construction projects?**

At OX Power, they understand the challenges facing the construction industry and offer battery systems for electrifying your plant equipment.

With their groundbreaking technology, you can take the step toward a sustainable future, where you not only save costs but also reduce your carbon footprint.

# ENERGY B-OX

## APPLICATION AREAS FOR ENERGY STORAGE

**Real estate:**

- Energy is stored for use when solar panels do not produce enough.
- The ability to retain excess energy on the property and avoid sending it to the grid.
- Can reduce power spikes and serve as backup.

**Industry**:

- Used to provide a consistent and stable power supply.
- Cuts power spikes through "Peak Shaving."
- Optimization for spot prices and avoidance of cost peaks.

**Construction and machinery:**

- Mobile energy storage can replace or hybridize diesel generators.
- Helps reduce carbon emissions on construction sites and meets regulatory requirements.
- Supports the grid when power is insufficient.

**Grid and energy companies:**

- Stabilization of the grid frequency of 50 Hz using energy storage and support services from SvK.
- Ability to boost transformer stations to handle high load demands for shorter periods.

**Electric vehicle infrastructure:**

- Used to "boost" EV chargers and manage power spikes when many are charging simultaneously.

**Renewable energy:**

- Excess energy from wind and solar parks is stored for later delivery when the grid needs it or when electricity prices are higher.




# ENERGY B-OX

Our flexible energy storage system has a capacity of **up to 150 kWh.**

**ENERGY B-OX 16.7 KWH**


SEE THE PRICE!

**ENERGY B-OX 33.4 KWH**


SEE THE PRICE!

**ENERGY B-OX 50.1 KWH**


SEE THE PRICE!

**ENERGY B-OX 66.8 KWH**


SEE THE PRICE!

**ENERGY B-OX 83.5 KWH**


SEE THE PRICE!

**ENERGY B-OX 100 KWH**


SEE THE PRICE!

**ENERGY B-OX 150 KWH**


SEE THE PRICE!

**TRAILER**

SEE THE PRICE!

# ENERGY STORAGE SYSTEM
# FROM OX POWER

## SUSTAINABLE ENERGY FOR LONG-TERM WORK

In a world where energy efficiency and independence are key, OX Power's advanced energy storage systems offer the perfect solution.

Our systems are specially designed for peak load leveling, allowing you to manage energy consumption peaks and be more efficient with your power supply.

We also offer robust off-grid solutions for locations and situations where traditional energy sources are not available. With OX Power, sustainability and reliability are always at the forefront.

**PRODUCT INFORMATION**

# ENERGY B-OX XL

## THE SOLUTION FOR RELIABLE AND SUSTAINABLE ENERGY STORAGE

Are you looking for an efficient and reliable energy storage system? At OX Power, we offer advanced solutions to meet your energy storage needs. Our systems are designed to be powerful, durable, and easy to integrate, ensuring optimal energy supply at all times.


### WHAT IS AN ENERGY STORAGE SYSTEM?

An energy storage system is a technology that stores energy for later use. It captures energy from various sources, such as solar and wind energy, and stores it in batteries for use when needed. This ensures a constant and reliable energy supply, even when energy production fluctuates or fails.

### BENEFITS OF AN ENERGY STORAGE SYSTEM

#### SUSTAINABILITY

Thanks to the use of lithium iron phosphate (LiFePO4) technology, our batteries have a long lifespan and are environmentally friendly. They provide a sustainable energy storage solution that helps reduce CO2 emissions.

#### COST SAVINGS

By storing energy during cheap or abundant production periods and using it during expensive or scarce times, businesses and households can save significant amounts on their energy costs.

#### ENERGY INDEPENDENCE

With an energy storage system, you can become less dependent on the power grid and use more self-generated energy. This is particularly useful in areas with unreliable grid power or high energy costs.



## ENERGY B-OX XL

Scalable container energy storage system with a capacity of **up to 4 MWh**.

**ENERGY B-OX XL**
**100 KWH**

SEE THE PRICE!


**ENERGY B-OX XL**
**200 KWH**

SEE THE PRICE!


## ENSURES MAXIMUM OPERATIONAL EFFICIENCY DURING YOUR PROJECTS

**ENERGY B-OX XL**
**200 KW**

SEE THE PRICE!

**ENERGY B-OX XL**
**300 KW**

SEE THE PRICE!

**ENERGY B-OX XL**
**400 KW**

SEE THE PRICE!

**ENERGY B-OX XL**
**500 KW**

SEE THE PRICE!

# LARGE MOBILE CHARGING STATIONS

## ENSURES MAXIMUM OPERATIONAL EFFICIENCY IN AREAS WHERE THE GRID IS UNAVAILABLE OR INACCESSIBLE!

### THE MOBILE FAST CHARGING STATION!

- **DOUBLE FIRE PROTECTION -** Environmentally friendly and reliable.
- **430 KWH CAPACITY -** CATL 1C battery cell.
- **PLUG AND PLAY -** Integrated for easy delivery and commissioning.
- **LIQUID COOLING -** Higher efficiency.

**0.5 C-rate for high efficiency**

1. For fast charging and discharging.
2. Maximum conversion efficiency of 89%.

**Liquid cooling method**

1. Improved safety.
2. Wide operating range for -30°~55° operation.
3. Higher efficiency and longer lifespan.

**Flexible and reliable**

1. Standard 10 ft container and pre-assembled delivery.
2. Mobile battery or peak shaving, etc.
3. IEC-certified performance.


**KEY FEATURES**

- 2 x 120 kW CCS fast chargers
- Off-grid, peak shaving, and hybrid applications.
- Latest battery technology.
- Modular design in output and battery capacity.
- Flexible use, easy to install.

**CONFIGURATION**

- Various options for AC-in and AC-out connections.
- Connection to PV systems (solar energy).
- Link to external (emergency) generator.
- Remote monitoring.

SCANDVOLT




Combine with **EcoSolar™ 6.3 MWh** and boost the energy storage!

# ECOSOLAR®

## INTEGRATION OF SOLAR ENERGY SYSTEMS IN CONSTRUCTION CABINS FOR MORE EFFICIENT BUILDING PROCESSES

With increased awareness of sustainability and environmental responsibility in the construction industry, the implementation of **solar energy systems in construction cabins** has become a prominent solution to improve energy efficiency during the construction process. By harnessing the power of the sun to generate electricity, this system not only enables **reduced carbon emissions** but also **cost savings** and **increased self-sufficiency.**

## INDUSTRIAL AND MOBILE SOLAR PANEL MODULES FOR CONSTRUCTION CABINS!

The solar energy systems integrated into construction cabins function as a reliable and sustainable energy source. By placing solar panels on the roofs of construction cabins, solar energy is captured and converted into electricity, enabling the operation of electronic equipment, lighting, and other energy-intensive processes at the construction site. This minimizes the need for traditional electricity from external sources, thereby reducing environmental impact.

The benefits of implementing solar energy systems in construction cabins extend beyond just sustainability. By reducing dependence on external power sources, the construction process can be streamlined, and the project can proceed more smoothly. Additionally, energy consumption costs decrease, benefiting both companies and the environment.

**GREAT POTENTIAL FOR USING SOLAR ENERGY!**

There are about **60,000 construction cabins** in Sweden and up to 1 million in Europe, with **the total energy consumption for construction cabins** estimated at **374 GWh/year** in Sweden.

The innovative solar energy system (EcoSolar®) consists of **pre-assembled and tiltable solar panel modules and battery energy storage units**, which is the first of its kind on the market.

The unique design of the solar panel module makes it **extremely easy to install, transport, and store** in a standard 40-foot container.

Battery energy storage converts unstable solar energy into a **stable energy source**. The system's capacity is **scalable and easily adaptable** to different construction site needs.

EcoSolar® will be able to create **significant economic profit** for construction companies during production!

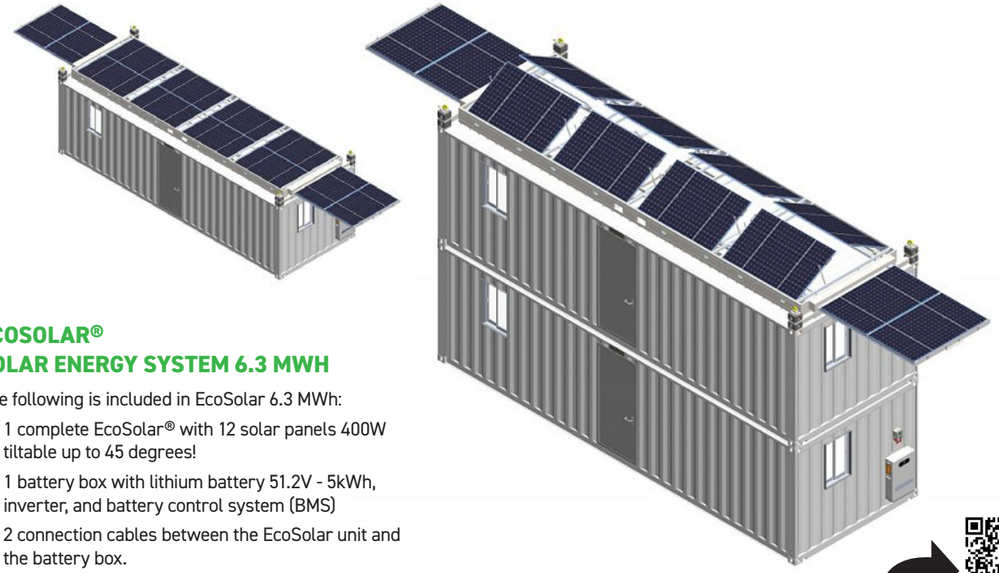
**PRODUCT INFORMATION**

# ECOSOLAR®

## THE ECOSOLAR® SYSTEM IS THE FIRST OFF-GRID SOLAR ENERGY SYSTEM WITH ENERGY STORAGE FUNCTION FOR CONSTRUCTION CABIN APPLICATIONS.

- The system consists of factory-assembled solar panel modules and battery energy storage units with built-in solar inverters. The solar panel modules and battery units in the system can be connected in parallel and provide flexible capacity to adapt to the needs of various construction sites.
- Thanks to the unique design of the solar panel module, the solar panels can be stored in a standard 40 ft container for road transport and depot storage.
- It is a plug & play system with very simple and quick installation/removal.
- Due to prefabricated modules, EcoSolar® has a very low product cost.

PRODUCT INFORMATION

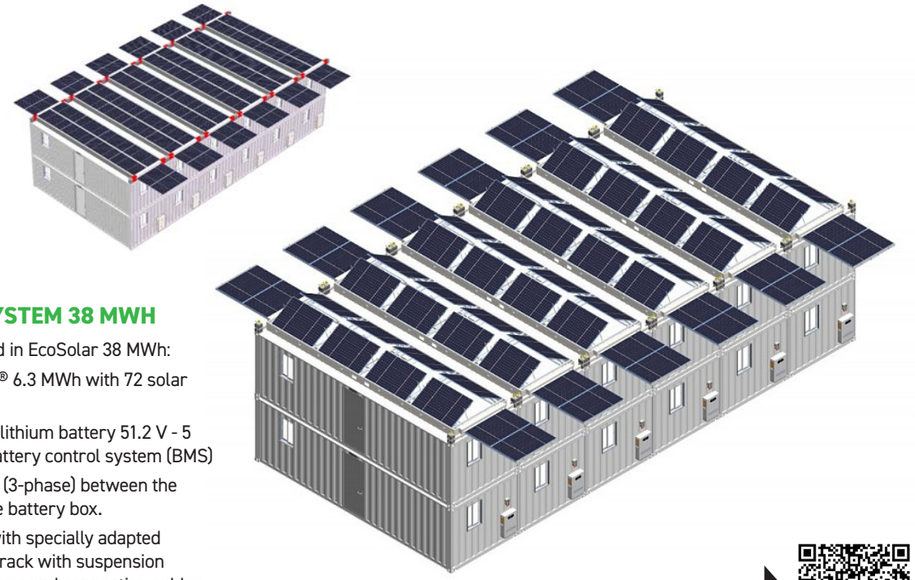


### ECOSOLAR®
### SOLAR ENERGY SYSTEM 6.3 MWH

The following is included in EcoSolar 6.3 MWh:

- 1 complete EcoSolar® with 12 solar panels 400W tiltable up to 45 degrees!
- 1 battery box with lithium battery 51.2V - 5kWh, inverter, and battery control system (BMS)
- 2 connection cables between the EcoSolar unit and the battery box.
- 1 connection cable (3-phase) between the battery box and the cabin connection.

SEE THE PRICE!



### ECOSOLAR®
### SOLAR ENERGY SYSTEM 38 MWH

The following is included in EcoSolar 38 MWh:

- 6 complete EcoSolar® 6.3 MWh with 72 solar panels 400 W
- 6 battery boxes with lithium battery 51.2 V - 5 kWh, inverter, and battery control system (BMS)
- 12 connection cables (3-phase) between the EcoSolar unit and the battery box.
- 1 20-foot container with specially adapted retractable stacking rack with suspension device for battery boxes and connection cables.
- 1 mount for a forklift to efficiently and safely move the stacking rack in and out.

SEE THE PRICE!

# SOLAR CONTAINER

## FILLED WITH SOLAR PANELS

These panels are part of the ingenious folding system, allowing them to be **quickly and easily pulled out of the container** using the innovative solar rails and can be spread over a **total length of 120 m (60 m per side)**. This results in a maximum possible **solar area of approximately 720 m²**. This concept of dual-sided development allows for shorter cable lengths between panels and the inverter, thereby increasing the efficiency of energy generation.

**120 m**
When all panels are unfolded

**240**
Number of solar panels

**720 m²**
Covered area

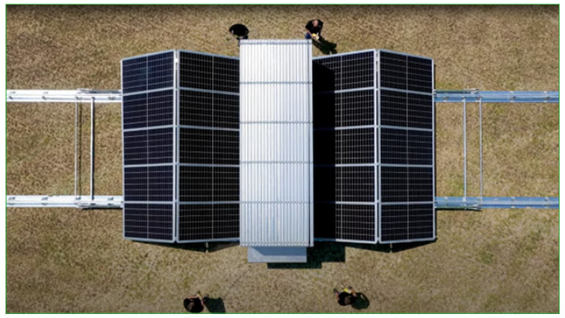
**5 h**
Up to 5 hours of assembly time

**140 kWP**
Production per day



## SOLAR CONTAINER TRANSPORT SYSTEM

The special container serves only as a transport, packaging, and safety unit for the largely pre-assembled solar system. In this way, the shell of the solar panels is fully unfolded. Once the rail system and transport unit are installed, the container is virtually no longer visible when the fully connected module frames have been extended. This feature allows the container not to cast a shadow on the mobile solar system.



### FAST AND SAFE TRANSPORT WITH A ROTATION LOCK SYSTEM

The solar cell container is lifted using the corner hooks in the top frame. With these in the base frame, the module can be fixed and secured during transport using the rotation lock system.

### INSTALLATION OF RAIL SYSTEM WITHOUT DRILLING

The solar rail system consists of individual segments used during construction connected to the fixed, centrally arranged container floor. These can be laid quickly, regardless of floor class and without drilling.

### ROBUST, HOT-DIP GALVANIZED STEEL STRUCTURE

The robust, hot-dip galvanized steel structure of the rail system and module frame constructions. Due to their own weight, they already provide sufficient protection against lifting or displacement due to wind loads.

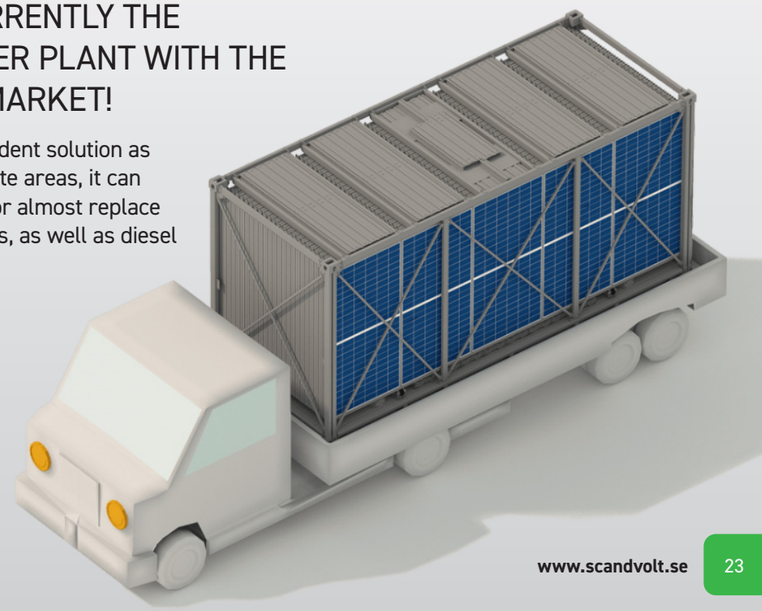
### BALLAST STONES FOR A STABLE RAIL SYSTEM

For increased wind load, appropriate ballast stones can easily be placed on the rail system, thereby securing the system further. After anticipating extreme weather conditions, such as high wind loads or snow, the entire module area can be folded up, secured to the central container floor, and taken out of operation within minutes.

## OUR SOLAR CONTAINER IS CURRENTLY THE LARGEST MOBILE SOLAR POWER PLANT WITH THE HIGHEST EFFICIENCY ON THE MARKET!

The solar container represents a grid-independent solution as a mobile solar power plant. Especially in remote areas, it can guarantee a stable energy supply or support or almost replace a public grid with significant power fluctuations, as well as diesel generators in use.

**PRODUCT INFORMATION**



SCANDVOLT

Batteries & Energy Storage

scandvolt.se

# LITHIUM BATTERY, ENERGY STORAGE, ELECTRIC VEHICLE CHARGING, AND MOBILE CHARGING STATIONS

## YOUR PARTNER IN ELECTRIFICATION OF CONSTRUCTION MACHINERY

At ScandVolt, we are dedicated to helping the construction industry evolve toward a more sustainable and efficient future. Our expertise in electric drive technology enables us to provide high-quality solutions that meet industry needs.

SCANDVOLT'S **hybrid and energy storage systems** provide an innovative solution to ensure a constant and reliable energy supply for facilities.

By integrating power modules with solar energy, wind power, and hydropower, as well as connecting them to energy storage stations such as batteries, the system enables efficient use of **renewable energy sources** and minimizes the facility's carbon footprint.

The sustainable and versatile nature of Scandvolt's systems makes it a powerful tool to promote the transition to **greener and more sustainable energy use** across various industries.


Litium battery

Energy B-OX

Energy B-OX XL


Mobile Charging Stations


Solar Energy Systems


Solar Container

### SERVICE ALL THE WAY

Questions may arise during the production or maintenance of your machines. Technical inquiries. Our battery specialists are happy to provide advice and support.

### GET PAID EASILY

Through our third-party solution, you as a customer can determine the price per kWh! All charging to the grid is handled automatically when prices are at their lowest!

### SHORT TIME TO MARKET

We help you quickly electrify your models. Our product range is easily configurable. And we are set up for close collaboration and short lead times. Your market is waiting. We deliver to you in Sweden.

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