

# EnerOne

Outdoor Liquid-Cooling  
Battery System

**Battery Energy Storage  
for Your Needs**



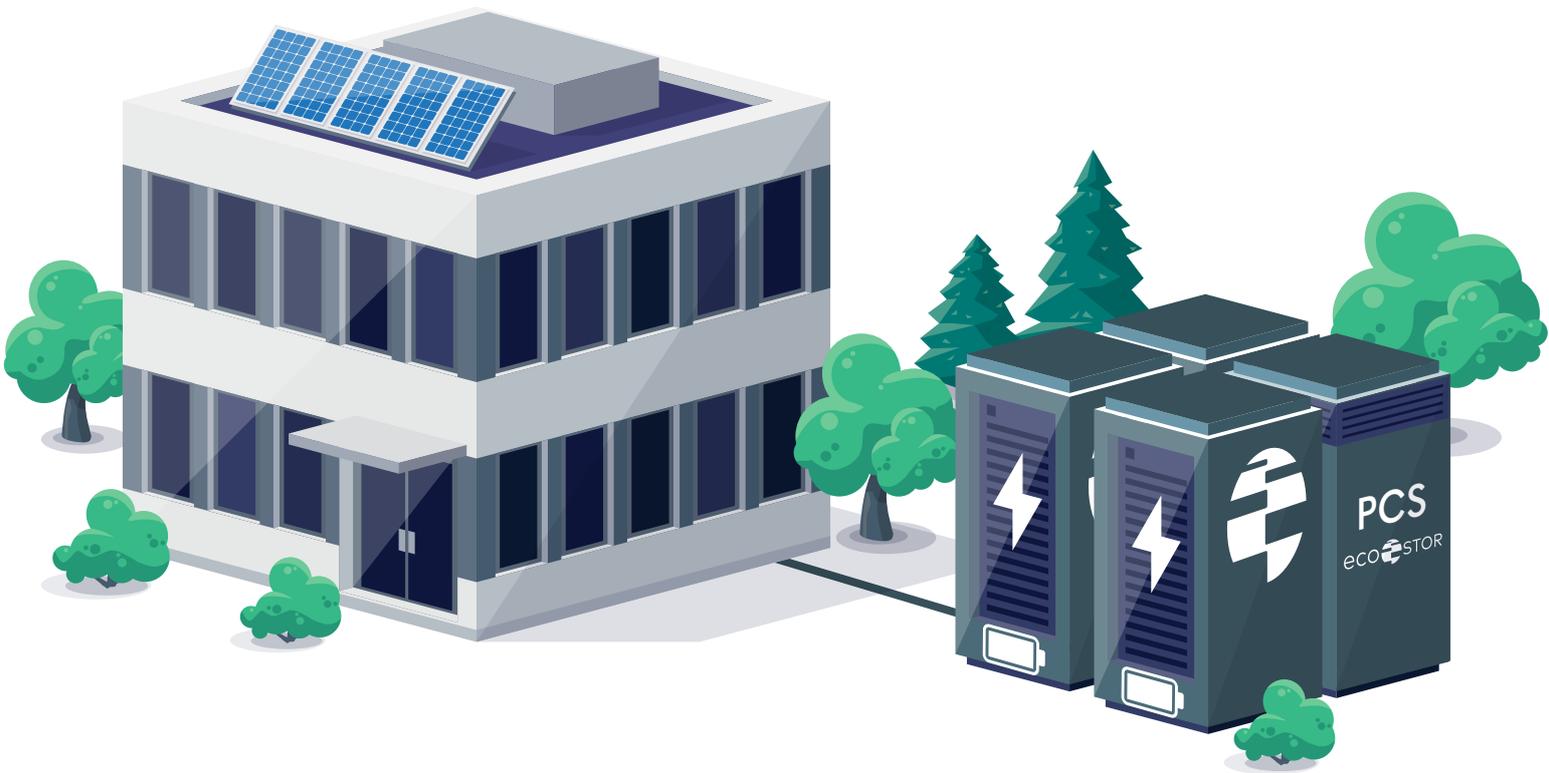
# ECO STOR

## Unlock Scalable Energy Solutions with ECO STOR and CATL's EnerOne

Discover the ultimate in energy storage flexibility with ECO STOR's integrated systems, featuring CATL's EnerOne. Whether you have a large scale project or want a smaller 1 MW system, these components paired with our advanced ECO STOR control systems and know how, we offer one of the most versatile solutions on the market today.

### Why Choose ECO STOR?

- **Unmatched Scalability**  
From a single cabinet at 372 kWh for your building, facility, or fast charger, to expansive solutions scaling up to tens of MWh for large-scale battery plants, our systems grow with your needs.
- **Seamless Integration**  
Designed for effortless integration, our platform can connect with your existing infrastructure, reducing costs through peak shaving and storing excess solar energy. Plus, we support integration with your chosen aggregator for participation in frequency and ancillary markets.
- **Nordic Engineering Excellence**  
Developed in-house by our expert engineering team in the Nordics, the ECO STOR platform ensures consistent performance and reliability across all components.
- **Top-Tier Partnerships**  
We collaborate with industry leaders like CATL to bring you top-quality systems at the most competitive prices.



# EnerOne

Rated power

**370 kW (1C)**

Rated Voltage

**1,331 DCV**

Rated Energy

**372.7kWh**

IP Level

**IP66**

Product weight

**3,500kg**

Dimensions (HxWxD)

**2340x1300x1300**



## High level of safety

- LFP batteries with high thermal stability
- Integrated fire suppression system
- Meets the requirements of outdoor applications



## Long service life

- Integrated liquid-cooling system
- Industry leading degradation hitting 60% state of health after 14 years if run at 1 cycle per day at 1C



## High integration

- Modular design with a high energy density, saving the floor space
- Delivered fully assembled, ensuring fast and low cost installation on-site
- Scalable design supporting everything from C&I applications up to large-scale front-of-meter battery plants

# Inverter for up to 3 MW



Rated Power

**1000 kW**

Rated Voltage

**400**

Noise level

**76.9dB(A)/1m**

Frequency services

**FFR & FCR**

Weight (kg)

**1600**

Dimension (LxHxW)

**1200x2350x1400**

## High integration

- High power density
- High voltage input
- Less than 200 millisecond reaction speed
- Scaled in parallel
- Industry leading technology
- High switching frequency
- Full power factor control



# Inverter & Transformer from 3,5 MW

## High integration

- Switch gear included
- RMU providing system redundancy in case of electrical failures
- Reduced installation time
- Simplified site layout
- Reduced site space requirements and integration time due to system
- Integrated fire suppression system
- High efficiency due to reduced cabling requirements



Rated Power

**3,45MW**

Rated Voltage

**10-33kV**

Noise level

**76.9dB(A)/1m**

Frequency services

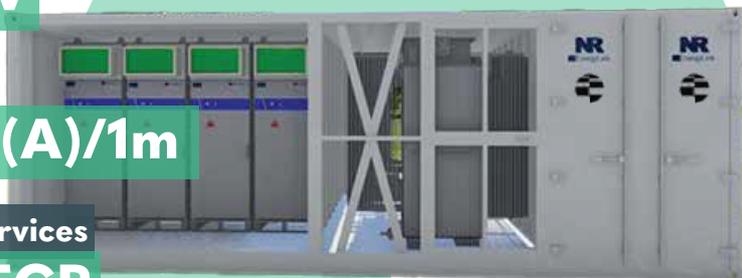
**FFR & FCR**

Weight (t)

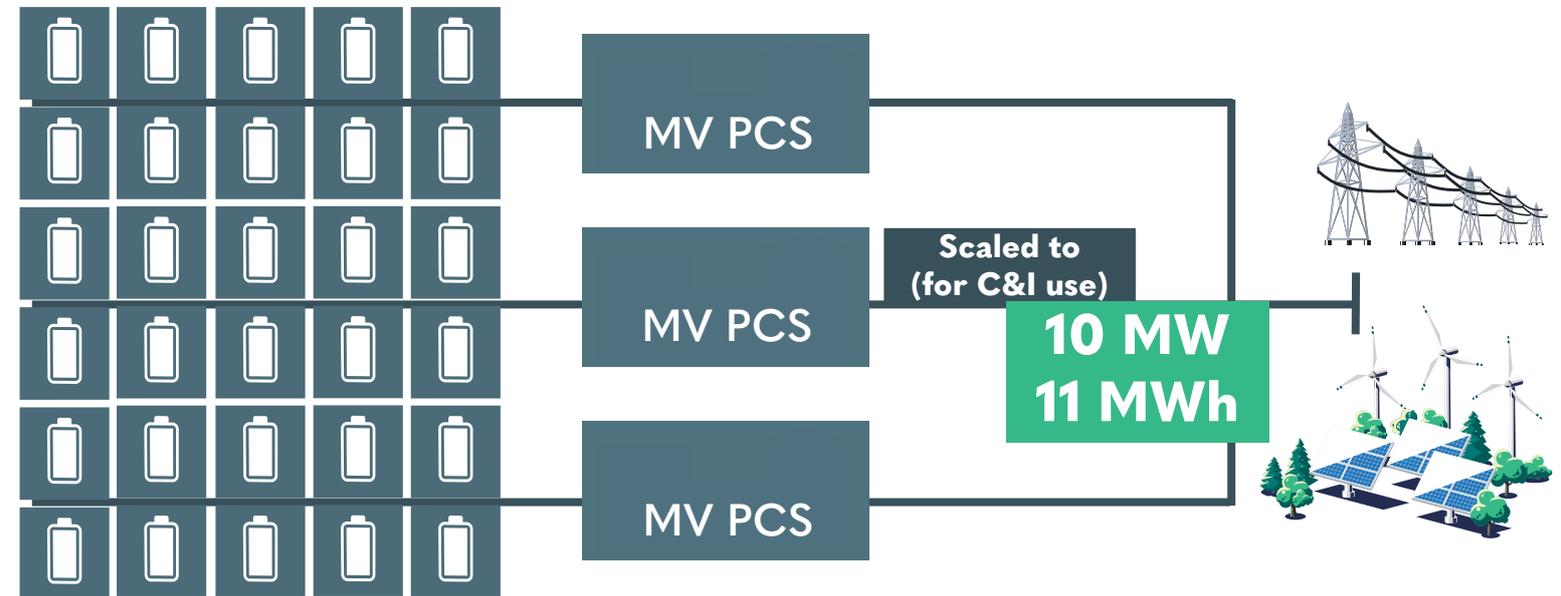
**23**

Dimension (WxHxD)

**6058x2896x2438**



# Illustrating scalability



## Elevate Your Scalability

Our solutions excel in scalability, adapting seamlessly to your connection's voltage requirements.

For tailored guidance on the ideal fit for your needs, contact our team. We specialize in optimizing systems to perfectly match your unique connection specifications.

Unlock growth confidently with our customized solutions for your business.

# Specifications

## EnerOne

Auxiliary power voltage range	176-264V AC(L-N)
Operating Ambient Temperature	-25 oC...+55 oC
Voltage Range (Vdc)	1164.8~1497.6 Vdc
BMS Certifications	IEC/UL60730 & UL1973
RACK Certifications	GB/T 36276,UL1973, IEC62619, IEC62477-1, UL9540A, EC61000-6-2/-4



## Inverter for up to 3MW



DV voltage range (V)	600~1500
Maximum DC input current (A)	1833
DC voltage ripple	< 1%
DC current ripple	< 3%
Nominal output power (kW)	1000
Maximum AC power (kVa)	1100
Nominal operating range	360~440
Maximum AC output current	1588

## Intverter & Transformer from 1MW

Transformer model	Oil Type
Transformer Vector	Dy11-y11
Colling Method	ONAF
Winding Material	Aluminium
Transformer Oil	Natural ester insulation oil
Transformer Efficiency	IEC Tier-2
Switchgear Type	Ring Main Unit, CCV
Rated Operating Current	630A
Switchgear Short Circuit Rating	20kA 1s



# Key Considerations



## Distance Requirements

Ideally maintain above 8 meters from building and combustible materials. In cases where this is not possible, a risk review will have to be done to approve the site.

## Area



The installation site should not be near escape routes, busy areas, or where heavy objects might cause damage. Avoid flood-prone or unstable ground and install away from noise-sensitive areas.



## Unit Spacing

Make sure that you have enough space to install all systems as per described in the data sheet. As a general rule you should have 50 cm between units to prevent fire spread and allow colling. This however, will be an individual evaluation depending on the final chosen product.

## Access control



In some cases in, in very public areas, such as schools, we recommend fencing off the BESS to limit accessibility.



## Site preparation

Once you are ready to go ahead with your project, you will need to obtain the necessary approvals, level the site and make sure it can support the BESS's weight. ECO STOR will be available to help and advice on these matter.

# Contact

## ECO STOR AS

ECO STOR is a Norwegian based company focusing on both 1st and 2nd life battery energy storage systems. Our headquarters and development sites are based in Oslo with additional offices in Sweden, the UK, Germany and the US.

Our team comprises of engineers, developers and project managers who are dedicated to delivering the very best systems and integrations of BESS.

We only deliver top tier and the best quality batteries and components to ensure the highest level of quality and integrity to our customers. And believe it or not we also have very competitive prices. (Don't believe us? Ask us for a quote)

We understand that each case and customer is different and excel at delivering the highest level of customer service. Should you have any questions, do not hesitate to contact us.

### Website

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