

ATE ESX SYSTEM



The ATE ESX system combines certified safety with true flexibility, offering modular energy storage solutions for buildings, outdoor units, and grid-scale applications.

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TECHNOLOGY WITH PURPOSE. BUILT FOR IMPACT

We don't build technology for the sake of technology. We build solutions that make a real difference — with precision, responsibility, and long-term impact.

CHRISTIAN NODSKOV
CEO & Founder

Key Advantages of the ATE ESX system

Certified safety
Insurance-approved for
indoor installation

Flexible deployment
Racks for indoor,
containers for outdoor

Modular design Scalable
from 276 kWh to MW-level
clusters

High safety LFP
chemistry, IP54, fire
detection & AI Monitoring

Market integration –
Ready for FXR and
VPP operation

Fast ROI
Typical payback in 1–2
years (DK/SE)

Resource efficiency Dual
use: grid services + local
back-up

Seamless integration Utilizes
existing infrastructure (powerlines,
fuse sizes, tech rooms)

Future-proof technology
Designed for long-term
performance and scalability



Technical Highlights (From the ESX Datasheet)

SYSTEM MODEL	ATE ESX system
Battery type	Lithium-Ion/LiFePO4 (LFP)
Energy capacity	2 × 138 kWh = 276 kWh per baseunit
Nominal voltage	768 VDC (672–864VDC)
Power range	4000 Wh 66–264 kW per section
Efficiency	> 95% peak
Operating temperature	0–55°C
Ingress protection	IP54
Dimensions	approx. 258 × 245 × 67 cm (rack format)
Weight	approx. 3,800 kg





Electricity frequency trading

Electricity trading can be compared to stock trading — but in reverse. When grid frequency is high, the system buys electricity; when frequency is low, it sells. This mechanism stabilizes the grid, prevents disruptions and blackouts, and ensures reliable electricity supply for society.

By leveraging these frequency services, the ATE ESX system not only strengthens energy resilience but also generates attractive income — reducing the need to import expensive electricity from other regions.

Why Choose ATE ESX system

The ATE ESX system is a safe, flexible, and insurance-approved energy storage solution that can be placed both inside buildings and outside in containers. This unique capability makes ATE one of the very few suppliers in the world able to offer such a high level of safety, flexibility, and economic performance in one complete system.

