

Second-Life Energy Storage System (ESS)



First commercialized Second-Life Battery Energy Storage System

- 30 % cost savings
- 5 % more battery capacity
- 100 % fail-safe
- 70 % reduced energy waste
- 7 years guarantee
- 95 % efficiency
- Service life: 10 years or 5,000 cycles



Why Second-Life Batteries?



- Governmental regulations around CO2 emissions have increased dramatically.
- Roll-out can help to reach worldwide climate goals.
- The footprint of every li-lon e-car battery can be improved.
- The lifespan of the batteries is being extended until recycling.
- Better EUR/kWh price situation by deploying 'used' batteries.
- Significant governmental support existing and more to be provided.
- Symbolizes the sustainability credentials of e.battery systems.

Most flexible and configurable system on the market today

Entirely new patented inverter system concept solves issues and **replaces the complex ensemble** of various components. The modular concept uses **battery modules** with safe voltage below 60 Volts.

We set the new standard for large-scale Battery Storage Systems.

Switching between charging the batteries and discharging them for **peak shaving** is very fast and fully automatic – all of this is handled by the integrated **control system**.

By using **second-life batteries** as storage modules from e-mobility applications like e-cars, e-buses, e-machines, this concept is becoming the most sustainable, green and innovative **storage system** on the market.

The system is based on a 67,5 kW converter while **additional power** can be added by **expanding** the system with additional modules and containers.

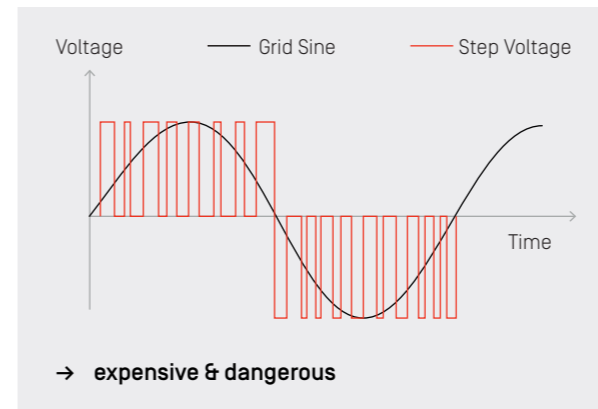
Track and control your energy usage, sources, and energy storage system in real-time with our **Energy Management System**. Accessible anytime, anywhere. →



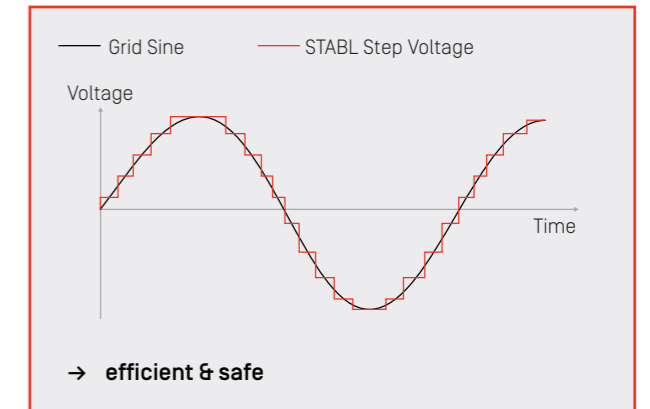
New battery inverter technology



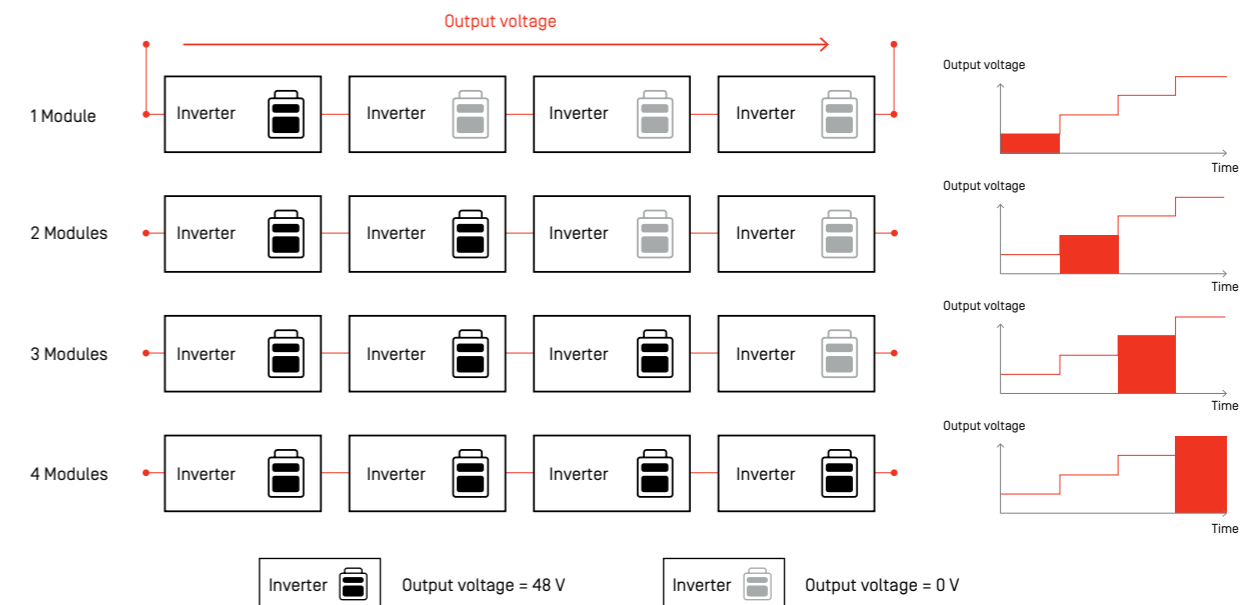
Static Series Connection:



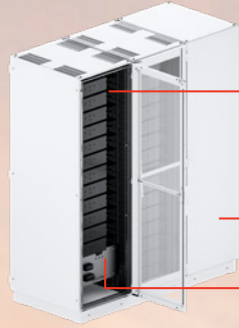
Dynamic Connection:



Operating principle for the generation of stepped output voltage



Standalone 19" Racks



Second-Life Battery-module with BMS



NSHV-Rack

Connection Box



Racks specifically designed for outdoor application or containers

Up to
4.5 MWh
capacity per container



Areas of application

- Industry and manufacturing
- Electromobility
- Building sites or mining
- Telecommunications
- Residential complexes

Why you should choose our Energy Storage System:

- A self-sufficient energy supply
- Self-consumption optimization
- Kicks in during power peaks
- Integration of renewable energies (wind, solar, hydro)
- Power supply in case of power cuts
- Peak Shaving
- Intelligent charge management
- Second-life use of electric car batteries
- Accumulation of own energy storage

Data sheet ↓

Technical Details

Parameter	Value
Grid Voltage	400 V AC 3ph
Input-Voltage [DC]	68 V DC [OCV]
Rated current [AC]	97.8 A
Short circuit current [AC]	100 A
Max. fuse size	100 A (recommended: NH 00 AC 500V 100A gR)
Rated power [AC]	67.5 kVA (at 400 V line-to-line grid voltage)
Power frequency	50 Hz and 60 Hz
Protection class	I
Overvoltage category [AC connections]	III
Grid type	TN, IT, TT
Idle Power	0 – 100% of apparent power

Inverter

Parameter	Value
Operating environment	Air-conditioned according to IEC 60721-3-3
Internal operating consumption	< 1.7 W
Internal standby consumption	0 W

Inverter module

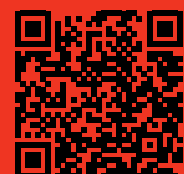
Parameter	Value
Operating environment	Air-conditioned according to IEC 60721-3-3
Internal operating consumption	12 W
Internal standby consumption	3 W
IP rating	IP 20

Connection Box

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