e.battery systems

Up to
4.5 MWh
capacity per container

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-Ion e-car battery can be improved.
- → The lifespan of the batteries is being e xtended 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**.

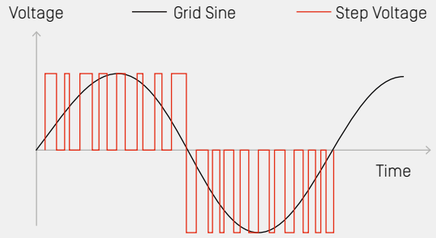
By using **second-life batteries** as storage modules from e-mobility applications like e-cars, e-buses, e-machines, this concept is becoming the most sustainable, green and innovative **storage system** on the market.

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. →

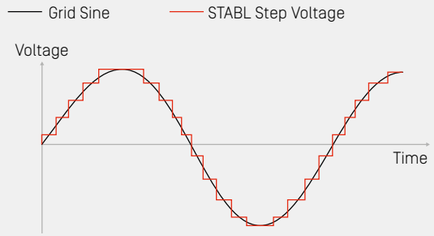
New battery inverter technology ↓

Static Series Connection:



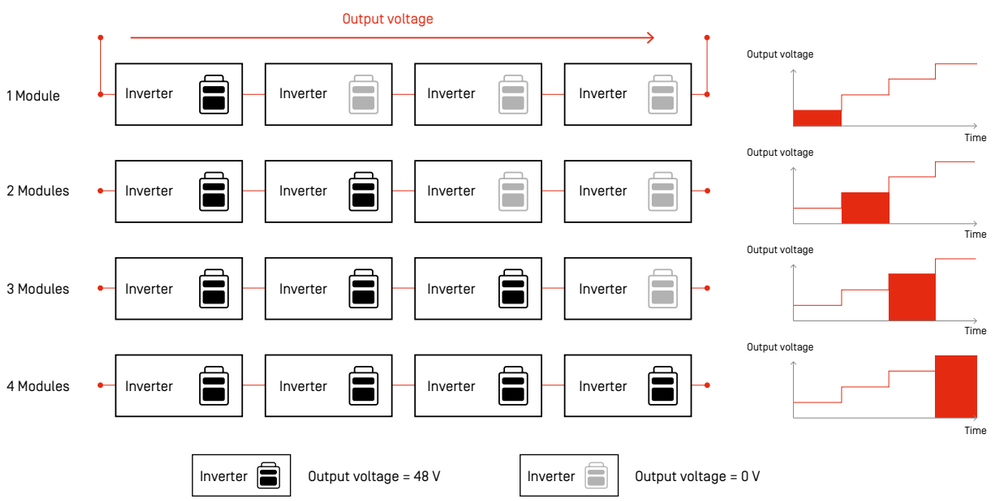
→ **expensive & dangerous**

Dynamic Connection:



→ **efficient & safe**

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

Inverter

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 module

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

Connection Box

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

* Intended for the end product. Subject to change.

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Scan for more information →