



accu 2nd-use Battery system

The ecological optimum!

In our accu 2nd-use battery storage systems, used electric car batteries are refurbished for a second, stationary use and equipped with new converters. As a result, this second-use application contributes to a further improvement of the environmental balance of electromobility.

In combination with a photovoltaic system, our battery solutions increase your degree of self-sufficiency, optimise your energy consumption and thus reduce your energy costs. In the commercial and industrial sector in particular, peak shaving can also reduce grid usage costs.



A customisable solution

This is not only in regard to the number of batteries used (regardless of capacity), but also to their charging and discharging capacity.

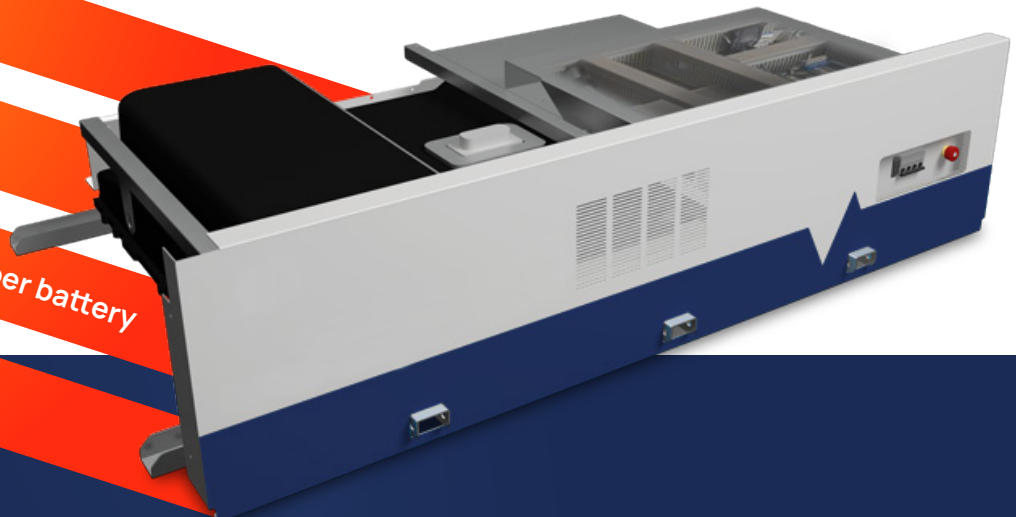
Depending on the application and the increasing need for more storage capacity, additional capacity can be added easily as needed.

Modular storage

2nd-use application

Power: +/- 10 or +/- 20 kW per battery

24 to 620 kWh



The growing battery storage system for every application

The sun2wheel accu battery system enables quick and easy self-sufficiency: Store your solar power during the day and retrieve it as needed during the night.

The converter power can be increased accordingly for peak shaving applications.

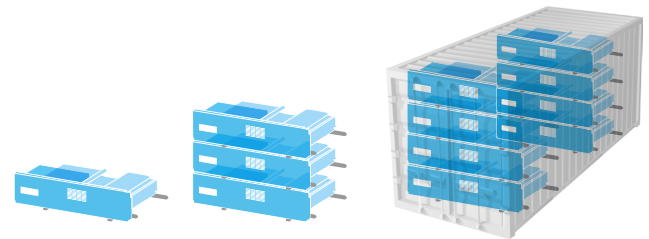
The system is flexible in its design: Individual solutions with 24, 40 and 62 kWh batteries can be configured for every need. Second use and brand new batteries can even be mixed.

Container solution

For larger performance and capacity requirements, several rack systems can be integrated in TEU containers. Containers in 10' format can be equipped. These allow access to the battery racks from both sides; thus, individual batteries can be quickly retrofitted or removed during operation.

The pre-configured rack system allows the integration of up to 5 batteries per unit for use in the same building.

The battery container is suitable for outdoor use and also offers space for electrical distribution, for example to supply charging stations, technical equipment or buildings with power.



Single battery → Rack System → Container

Domestic use

Commercial applications

Technical Specifications

Battery	Grid connection	3 x 400 VAC
	Battery capacity (nominal)	24kWh, 40kWh, 62kWh
	Battery type	Laminated lithium-ion battery
	Charging / discharging capacity per battery	10 kW DC, optionally 20 kW DC
	Mass battery (W x H x D)	1800mm x 520mm x 1300mm
	Weight per battery	approx. 400 kg
Container	Mass (L x W x H) container	2991mm x 2438mm x 2591mm
	Weight container	825kg
	Cooling	Air-cooled
	Operating temperature	-20 °C to +45 °C
Rack	Mass rack (W x H x D, max. 5 batteries)	2000mm x 2370mm x 1300mm
	Weight rack	Approx. 25 kg

For higher power requirements, we recommend the combination of 2nd-use batteries with a maximum charging and discharging capacity of 20 kW DC per battery. For high-capacity requirements, we recommend a minimum charging and discharging capacity of 10 kW DC per battery. The batteries are equipped with a plug&play plug (CEE plug of 16A / 400V) as standard.

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The sun2wheel product family

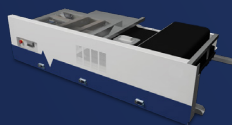
combines solar energy, electromobility and the electricity grid

The complete system for the intelligent use of vehicle batteries as energy storage - resource-saving and incrementally expandable; Swiss cutting-edge technology for sustainability!



V2X-controller

All charging stations and rechargeable batteries are managed in a superordinate and intelligent way. The system can be expanded incrementally. The sun2wheel app makes the various functions controllable and tangible.



accu, accu-rack & accu-container

The accu second use battery system (can also be ordered brand new) can be used as a single battery as well as a rack and container system. Capacity of 24-620 kWh



two-way-10

With the bidirectional 10 kW DC charger you can easily supply your home or business with electricity from your electric vehicle.



one-way-guest-64

One-way 64 or two-way 32 kW DC, including dynamic load sharing, allow easy and fast charging of all electric cars



one-way-compact-11

This AC premium charger is available in an 11 kW version. Easy installation with CEE plug.