

Technical Data



DC-coupled salt battery storage

for commercial, industrial and neighbourhood applications
from 100 kWh to 1.4 MWh

With a **salidax**[®] storage system, there is far more to gain than energy self-sufficiency, self-consumption optimisation and electricity cost reduction.

The **salimax**[®] will help you ...

- ... to store your energy safely, securely and innovatively.
- ... to make your contribution to the environment and climate change.
- ... to invest your money in a long-lasting resource-saving system.
- ... to use your electricity in a 100% sustainable and environmentally friendly way.
- ... to give your grandchildren a healthy future.

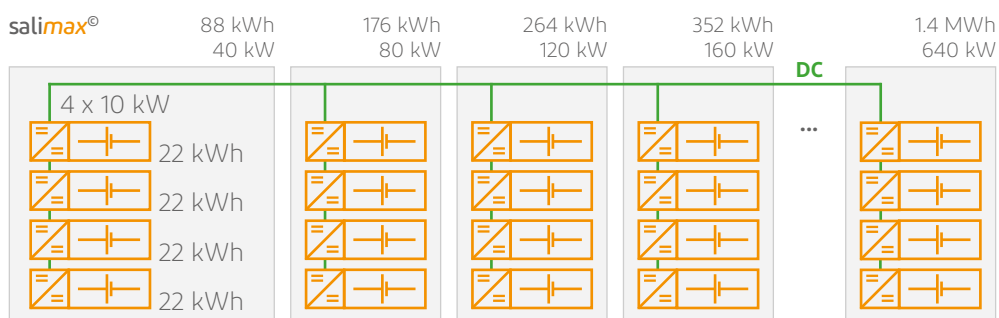
	salimax [®] 9	salimax [®] 22
Requirements New PV system with AMPT DC/DC converters	from 100 kWp	
Variants Battery Storage		
Storage capacity	9 kWh	22 kWh
DC/DC converter power	10 kW	10 kW
Maximum storage capacity	500 kWh	1.4 MWh
Number of batteries per rack	6	4
DC safety elements	yes	yes
Characteristics		
Type of system	DC-coupled salt-based storage battery	
KfW subsidy	yes, 10-year fair market value guarantee	
Requirements Installation site	dry, indoor	
Fire and personnel protection requirements	usual personnel protection, no fire protection measures necessary	
Extension of battery capacity	at any time, old + new batteries can be combined	
Installation effort	depending on local conditions and total storage size	
Dimensions storage battery (WxHxD)	558 x 320 x 496 mm	540 x 390 x 970 mm
Battery weight	105 kg	255 kg
Battery storage		
Battery type	Salt battery (molten salt or ZEBRA cell)	
Chemical description	NaNiCl ₂ (sodium nickel chloride)	
Battery manufacturer / Product	FZSoNick + innovenergy / salimax [®]	
Expected life <small>(years/deep cycles/shallow cycles)</small>	15 years / > 4500 / > 8500 (at 80 % DoD)	
Nominal storage size at 100 % DoD	9.2 kWh	22.5 kWh
Daily usable storage at 85 % DoD	7.8 kWh	19 kWh
Maximum C rate (charge/discharge rate)	0.25 C / 0.5 C	
Nominal battery voltage	250 V	620 V
Battery efficiency during standard cycle	90 %	
Energy management		
Controller	innovenergy	
Switchover to off-grid operation	automatic switchover with interruption possible	
Self-consumption optimisation	integrated and configurable	
Visualisation, data analysis, energy statistics	Local PC access, web platform, mobile app	

DCmaxx®

Bidirectional inverter smaller systems	Grid feed-in and grid draw (within a DCmaxx®)
DC/AC inverter	bi-directional
Manufacturer	Trumpf Hüttinger (DE)
Rated output power/voltage/frequency	25 kVA per module / 3-phase, 400 VAC / 50 Hz up to 16 modules = 400 kVA
Maximum charge/discharge efficiency	97 %
Galvanic isolation (battery from system)	yes
Bidirectional inverter large systems	Grid feed-in and grid draw (within a DCmaxx®)
DC/AC inverter	bi-directional
Manufacturer	Indrivetec AG (CH)
Rated output power/voltage/frequency	320 kVA, 500 kVA, 750 kVA, 1 MVA / 3-phase, 400 VAC / 50 Hz
Maximum charge/discharge efficiency	97 %
Galvanic isolation (battery from system)	yes
Unidirectional inverter	Mains feed only (within a DCmaxx®)
DC/AC inverter	unidirectional
Manufacturer	KACO New Energy, REFU
Rated output power/voltage/frequency	50-105 kVA per module / 3-phase, 400 VAC / 50 Hz
Maximum charge/discharge efficiency	97 %
Galvanic isolation (battery from system)	yes

Extensions

Up to 64 salimax® (à 22 kWh) can be connected in tandem. An extension is possible at any time, even years later.



Advantages of the salt battery

The salt batteries of the innovenergy storage solution are made of harmless materials: 32 % common salt, 22 % nickel, 22 % iron, 20 % ceramic.

The recycling of the salt battery has been standardised for 15 years. The metals are melted down and returned to the metal industry. The battery is manufactured 100% in Switzerland according to Swiss environmental and labour standards.

The salt battery is absolutely safe - the rooms do not need any fire protection or fire warning devices as the battery is neither flammable nor can it explode. It can also be operated in very cold and very warm rooms (-20° to +60° C) without ventilation or air conditioning. The outside temperature does not affect the storage capacity or the service life.

The battery survives a total discharge without damage. The salt battery has a service life of at least 15 years (10-year guarantee) and is maintenance-free.

The salt battery is extremely robust and is used by the thousands in the telecommunications industry. In industry, it is considered a cheap and safe electricity storage technology in the long term. With innovenergy, this technology is now also available for domestic use and for businesses.

Recycling

There are no early recycling or disposal fees. However, the transport of the battery to be discarded back to the manufacturer in Stabio/CH must be borne by the customer. There, the complete battery is returned to its raw material cycle.

Warranty

With a maximum of 80 % DOD without further conditions, the battery is covered directly by the manufacturer with a guarantee of 10 years. The battery inverters are covered by a 5-year warranty. Everything else is covered by a standard 2-year warranty. The warranty is an device warranty. Travel costs and working hours will be charged separately in the event of replacement or faults, unless you have subscribed to a service contract for the relevant year.

Norms

EN 55022 Continuous disturbance voltage | EN 55014 -1 Discontinuous disturbance voltage | EN 55011 Radiated disturbance | EN 61000-4-2 Electrostatic discharge | EN 61000-4-3 Radiated electromagnetic field | EN 61000-4-4 Electrical Fast Transients | EN 61000-4-5 Surge | EN 61000-4-6 Injected currents | GR1089 | FCC Class A | IEC 60529 IP Protection Degree

We will be happy to advise you!

For a non-binding consultation, please contact us.



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