sali*domo*© EXT

Technical Data

Salt battery storage systems for larger solar roofs

with 27 kWh or 36 kWh

With a **sali*domo*© EXT** storage system, there is far more to gain than energy self-sufficiency, self-consumption optimisation and electricity cost reduction.

The sali*domo*© EXT 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.

innov energy
Store with salt!

Technical Data

salidomo© EXT

	27	36
Requirements Installed photovoltaic system	18 - 30 kWp	27 - 45 kWp
System characteristics		
Type of system	All-in-one system	
AC phases	3-phase system (asymmetrical operation possible)	
KFW subsidy	yes, 10-year current value guarantee	
Requirements installation site	dry, indoor and outdoor	
Fire and personal protection requirements	usual personal protection, no fire protection measures necessary	
Extension of battery capacity	at any time, old + new batteries can be combined	
AC installation effort	approx. 1/2 day (depending on local conditions)	
Dimensions (WxHxD)	1430 x 1538 x 680 mm (2 parts)	
Total weight	415 kg 1 x 290 kg / 1 x 125 kg	520 kg 1 x 290 kg / 1 x 230 kg
Battery storage		
Battery type	Salt battery (molten salt or ZEBRA cell)	
Chemical name	$NaNiCl_2$ (sodium nickel chloride)	
Battery manufacturer / Product	FZSoNick / 48TL200	
Expected life (years/deep cycles/shallow cycles)	15 years / > 4500 / > 8500	
Nominal storage size	28.2 kWh	37.6 kWh
Daily usable storage	24 kWh	32 kWh
Charging power	≤ 120 A (≤ 6 kVA)	≤ 160 A (≤ 8 kVA)
Continuous power discharge	230 A (15 kVA) Inverter limited	
Maximum C rate (charge / discharge)	0.25 C / 0.5 C	
Nominal battery voltage	48 V	
Battery efficiency	90 %	
Inverter		
Victron, adapted to salt battery	3 x 5 kVA / 400 V	
Overload capacity of the max. discharge power	30 kVA	
Time of maximum overload	5 seconds	
Galvanic isolation (battery from system)	yes	
Energy management	Victron ESS	
Inverter safety in PV systems	DIN EN 62109 certified	

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Emergency power supply		
Mains independence	asymmetrical 3-phase operation	
Recharging by PV in stand-alone operation	with Victron, Solaredge, Fronius and Studer	
Separate circuit	≤ 15 kVA freely definable	
Switchover to off-grid mode	automatic (in under 20 milliseconds)	
Further functions		
Self-consumption optimisation	integrated and configurable	
Breaking demand peaks (peak shaving)	integrated and configurable	
Automatic stand-by operation	with unloaded inverters	
Energy management	Victron ESS	
Visualisation, data analysis, energy statistics	Web platform plus app for iOS + Android	

Intelligent control

- Potential-free contact for switching consumers on and off (charging station, heat pump, etc.)
- Time control for recharging the battery from the mains (calibration 100 % SOC)
- Lifetime-optimised operation of the battery (discharge protection during bad weather periods, consideration of the weather, power limits)

Extension options

The **salidomo© EXT** can be expanded from 27 kWh to 36 kWh at any time with the existing three inverters. **salidomo© EXT** consist of two enclosures, which facilitates transport & assembly

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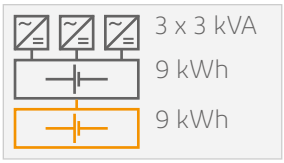

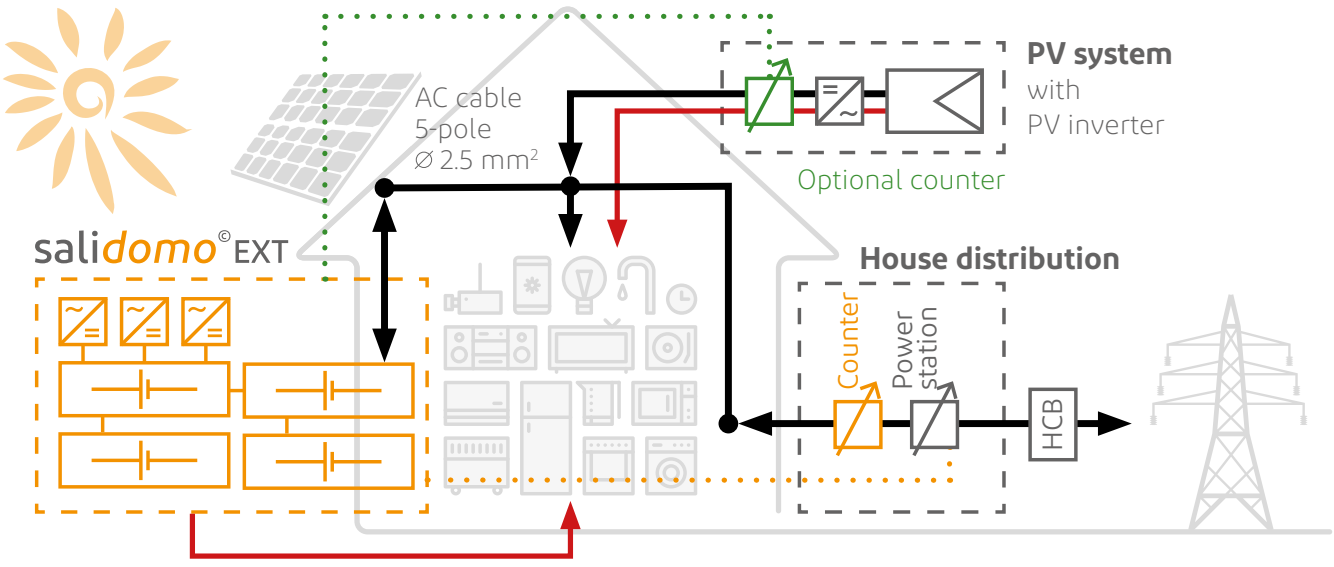

included in the scope of delivery of a salidomo© EXT + Off-grid operation/UPS | Opional | On-site installations

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

EMC Directive 2014/30/EU: EN 61000-3-2:2014 | EN 61000-3-11:2017 | EN 61000-3-12:2011 | EN 61000-6-1:2007 | EN 61000-6-2:2019 | EN 61000-6-3:2007/A1:2011/C11:2012 | EN 61000-6-4:2019 | EN 55014-1:2017 | EN 55014-2:2015 | EN_IEC 62040-2:2018

Low Voltage Directive 2014/35/EU: EN-IEC 60335-1:2012/A11:2014/A13:2017 | EN-IEC 60335-2-29:2004/A2:2010/A11:2018 | EN-IEC 62233:2008 | EN-IEC 62368-1:2014/A11:2017 | EN-IEC 62109-1:2010 | EN-IEC 62109-2:2011 | EN-IEC 62040-1:2020 | EN-IEC 50438:2014 | EN 62485-1:2018 | EN 62485-2:2018 | UL 1973 2013 Ed.1 | VDE-AR-N 4105:2018-11 | VDE-0126-1-1:2006/A1:2012 | VDE V 0124-100:2019-04 | G99 1-6:09.03.2020 | G98 1-3:03/2019 | EN 50549-1:2019 | EN-IEC 62116:2014 | EN 61439-1:2012 | EN 61439-2:2012 | EN-IEC 62984-1:2017 | EN-IEC 62984-3-1:2017 | EN-IEC 62984-3-2:2017

RoHS (2011/65/EU und 2015/863/EU): EN 63000:2019

We will be happy to advise you!
For a binding offer – individually tailored to your needs – please contact us.

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