

# salidomo<sup>®</sup> EXT

## Technical Data



### Salt battery storage systems for larger solar roofs with 27 kWh or 36 kWh

The **salidomo<sup>®</sup> EXT** is an AC-coupled salt battery storage system that works with all PV inverters. The installed battery inverter capacity is 15 kVA. DC coupling of the photovoltaic system via our MPPTs is also possible.

With a **salidomo<sup>®</sup> EXT** storage system, there is far more to gain than energy self-sufficiency, self-consumption optimisation and electricity cost reduction.

#### The **salidomo<sup>®</sup> 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.

	27	36
<b>Requirements</b>		
Installed photovoltaic system	18 - 30 kWp	27 - 45 kWp
<b>System characteristics</b>		
Type of system	All-in-one system	
AC phases	3-phase system (asymmetrical operation)	
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
<b>Battery storage</b>		
Battery type	Salt battery (molten salt or ZEBRA cell)	
Chemical name	NaNiCl <sub>2</sub> (sodium nickel chloride)	
Expected life at 80 % DoD	15 years / > 8500 shallow cycles	
Nominal storage size	28.2 kWh	37.6 kWh
Usable storage	approx. 24 kWh	approx. 32 kWh
Charging power	≤ 120 A (≤ 6 kW)	≤ 160 A (≤ 8 kW)
Continuous power discharge	≤ 350 A (15 kVA) Inverter limited	
Maximum C rate (charge / discharge)	0.25 C / 0.5 C	
Nominal battery voltage	48 V	
Battery efficiency (standard cycle)	90 %	
<b>Inverter</b>		
Nominal power (Victron, adapted to salt battery)	3 x 5 kVA / 400 V	
Overload capacity (max 5 sec.) max. discharge power	30 kVA	
Galvanic isolation (DC from AC)	yes	
Inverter safety in PV systems	DIN EN 62109 certified	
Energy management	Victron ESS adapted to the salt battery	

27

36

**Further functions**

Self-consumption optimisation	integrated and configurable
Breaking demand peaks (peak shaving)	integrated and configurable
Automatic stand-by operation	with unloaded inverters
Visualisation, data analysis, energy statistics	Web platform plus app for iOS + Android
Battery monitoring	Remote monitoring of all batteries in real time

**Emergency power supply**

Mains independence	asymmetrical 3-phase operation
Recharging by PV in stand-alone operation	DC -> DC: Victron MPPT
Separate emergency circuit	≤ 15 kVA freely definable
Emergency power switchover	automatic (in under 20 milliseconds)

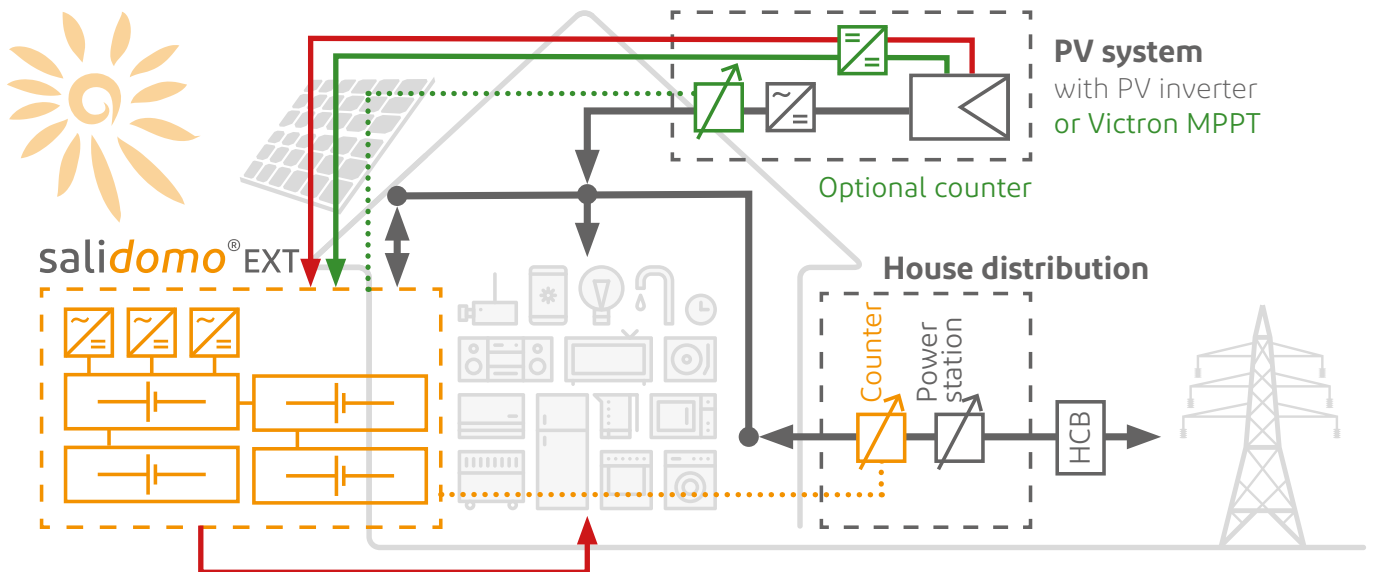
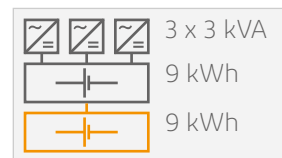
**Intelligent control**

- 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 (power limits)

**Extension options**

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

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■ Included in the scope of delivery of a **salidomo<sup>®</sup> EXT** | 
 ■ Off-grid operation | 
 ■ Optional | 
 ■ On-site installations  
*This graphic does not replace the detailed circuit diagram or the connection examples.*

# Advantages of the salt battery

The salt batteries of the innovenergy® storage solutions 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

100 % of the discarded salt batteries are returned to the raw material cycle. In Switzerland, this recycling is ensured by INOBAT. Different recycling regulations apply in each country and advance disposal fees are charged accordingly. Please ask your sales partners in the respective country.

## Subsidies

KfW subsidy in Germany is available with a 10-year current value guarantee.

## Warranty

Provided that the installation and operating conditions are complied with, the salt battery is covered directly by the manufacturer with a time-value 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/C1:2012 | 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

## Our partners will be happy to advise you!

For competent advice and an individual offer, please contact one of our sales partners in your area:

[www.innov.energy/en/sales-partner](http://www.innov.energy/en/sales-partner)



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