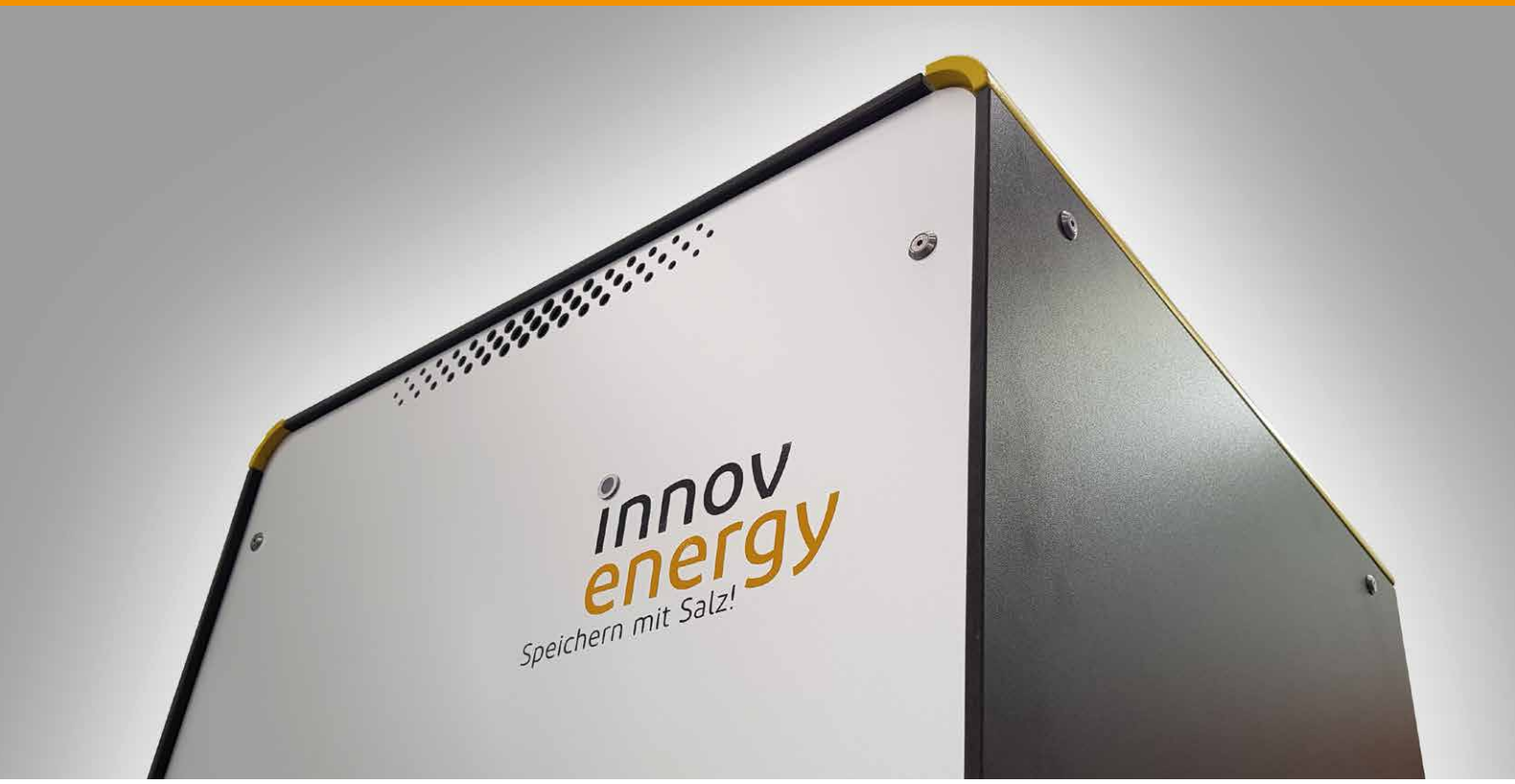
salidomo®

Technical Data



Salt battery storage systems for the home
with 9 kWh or 18 kWh

The **sali***domo*® is an AC-coupled salt battery storage system that works with all PV inverters. The installed battery inverter capacity is 9 kVA. DC coupling of the photovoltaic system via our MPPTs is also possible.

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

The sali*domo*® 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®

	9	18
Requirements Installed photovoltaic system	7 - 10 kWp	9 - 20 kWp
System characteristics		
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)	715 x 1538 x 680 mm	
Total weight	185 kg	290 kg
Battery storage		
Battery type	Salt battery (molten salt or ZEBRA cell)	
Chemical name	$NaNiCl_2$ (sodium nickel chloride)	
Expected life at 80 % DoD	15 years / > 8500 shallow cycles	
Nominal storage size	9.4 kWh	18.8 kWh
Usable storage	approx. 8 kWh	approx. 16 kWh
Charging power	≤ 40 A (≤ 2 kW)	≤ 80 A (≤ 4 kW)
Continuous power discharge	≤ 150 A (6.5 kVA) Battery limited	≤ 220 A (9 kVA) Inverter limited
Maximum C rate (charge / discharge)	0.25 C / 0.5 C	
Nominal battery voltage	48 V	
Battery efficiency (standard cycle)	90 %	
Inverter		
Nominal power (Victron, adapted to salt battery)	3 x 3 kVA / 400 V	
Overload capacity (max 5 sec.) max. discharge power	18 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	

Technical Data

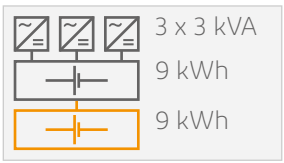
salidomo®

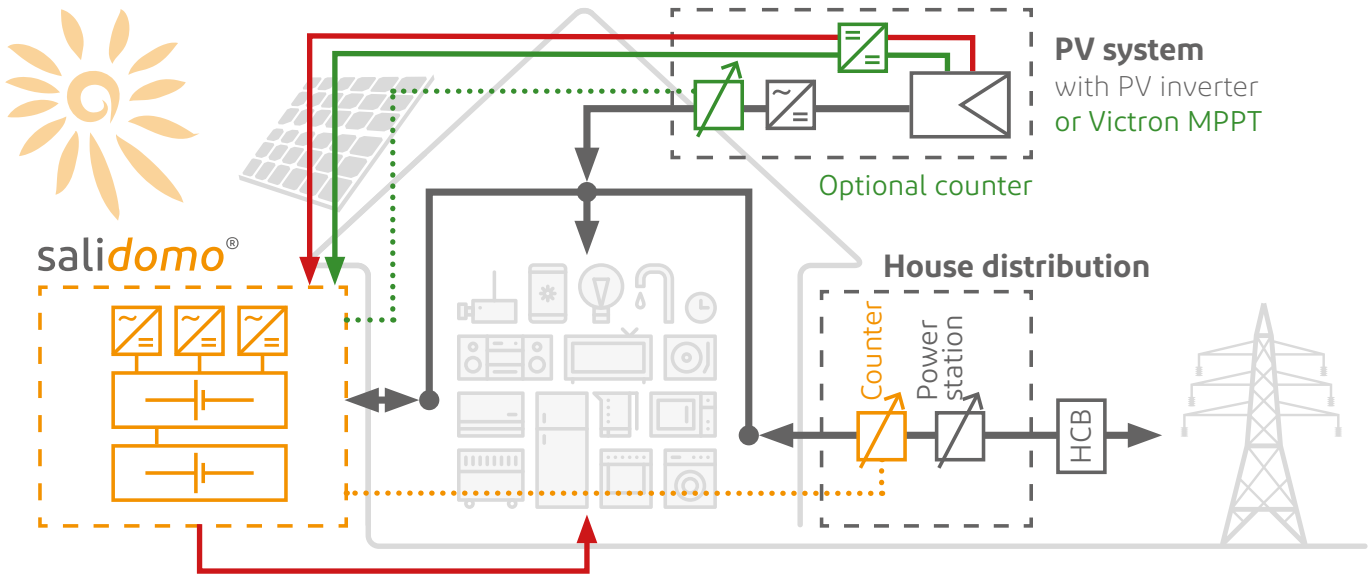
	9	18
Further functions		
Self-consumption optimisation	integrated and configurable	
Breaking demand peaks (peak shaving)	integrated and configurable	
Automatic stand-by operation	with unloaded inverters	
Visualisation, data analysis, energy statistics	Web platform plus app for iOS + Android	
Battery monitoring	Remote monitoring of all batteries in real time	
Emergency power supply		
Mains independence	asymmetrical 3-phase operation	
Recharging by PV in off-grid operation	DC -> DC: Victron MPPT	
Separate emergency circuit	≤ 9 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®** can be expanded from 9 to 18 kWh at any time with the existing three inverters.

salidomo® 9/18





Included in the scope of delivery of a salidomo® | 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/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

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

innov® energy
Store with salt!

innovenergy AG
Gemeindemattenstr. 20
CH-3860 Meiringen
T +41 33 552 10 10
info@innov.energy