

salidomo[®] ECO

Technical Data



Salt battery storage systems optimised for small PV systems

1-phase storage with 7 kWh

The **salidomo[®] ECO** is an AC-coupled 1-phase salt battery storage system for smaller PV systems. The system works with all PV inverters. The installed battery inverter capacity is 3 kVA.

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

The **salidomo[®] ECO** 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.

Requirements

Installed photovoltaic system

4 - 9 kWp

System characteristics

Type of system

All-in-one system

AC phases

1-phase storage system

Requirements installation site

dry, indoor and outdoor

Fire and personal protection requirements

usual personal protection,
no fire protection measures necessary

AC installation effort

approx. 1/2 day (depending on local conditions)

Dimensions (WxHxD)

640 x 882 x 820 mm

Total weight

145 kg

Battery storage

Battery type

Salt battery (molten salt or ZEBRA cell)

Chemical name

NaNiCl₂ (sodium nickel chloride)

Expected life (years/deep cycles/shallow cycles)

15 years / > 4500 / > 8500

Nominal storage size

7.7 kWh

Usable storage

approx. 6.5 kWh

Charging power

≤ 32 A (≤ 1.9 kW) battery limited

Continuous power discharge

≤ 60 A (3 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)

1 x 3 kVA / 230 V

Overload capacity (max 5 sec.) max. discharge power

6 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

Further functions

Self-consumption optimisation	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

The salidomo[®] ECO is always capable of emergency power supply via a socket connected to the battery system. In the event of a power failure, the battery can continue to be used until it is empty.

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)

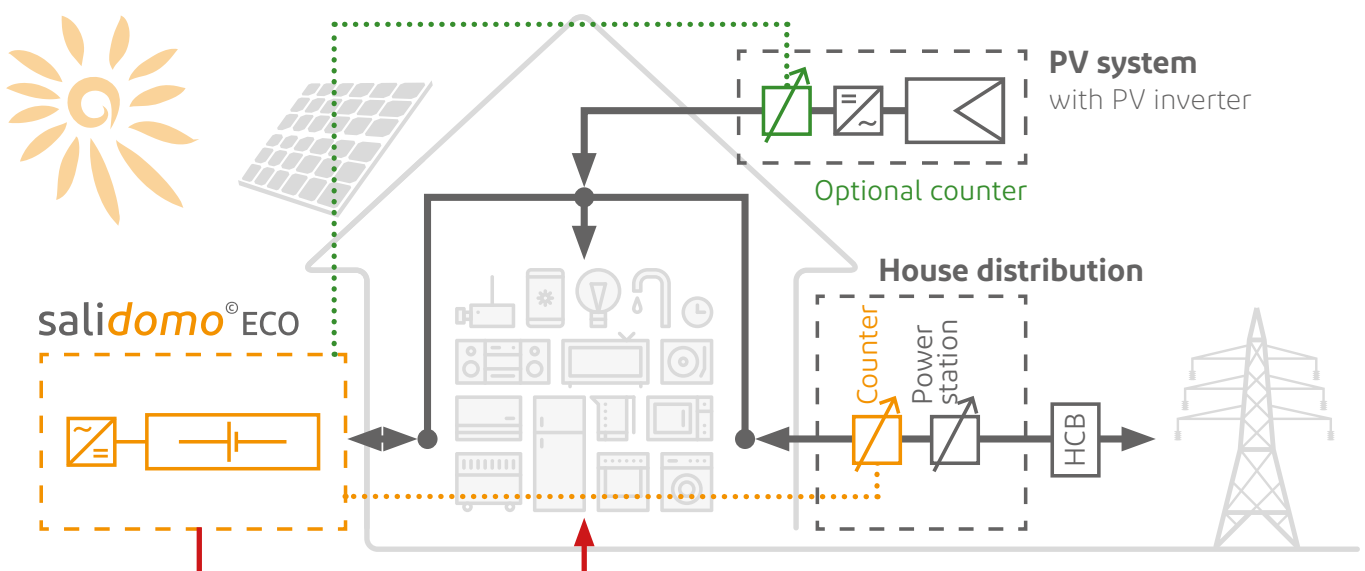
Lifetime-optimised operation of the battery
(discharge protection during bad weather periods, consideration of the weather, power limits)

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



■ Included in the scope of delivery of a salidomo[®] ECO | ■ Emergency power socket | ■ Opional | ■ 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 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.

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.

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



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