

Installation checklist

The **salidomo**[®] installation checklist is a step-by-step overview for the installer. We recommend that you read through these instructions in preparation. During the installation on site, this checklist is a beautiful companion. In order that nothing is forgotten, each individual step can be ticked off as completed.

Preparations for installation

Installation-specific information and a detailed procedure can be found in the installation instructions.

Monitoring

Please obtain the access data for the Victron VRM portal from your client in advance. Open the portal in your PC browser: vrm.victronenergy.com
Log in and access the system to be installed.

Install the Victron Connect app on your smartphone and/or your PC.

To prepare for installation, we recommend that you review the following documents:

- salidomo**[®] Installation instructions
- salidomo**[®] Operating manual
- salidomo**[®] Circuit diagram
- salidomo**[®] Connection example without emergency power
- salidomo**[®] Connection example with emergency power
- salidomo**[®] ECO Circuit diagram
- salidomo**[®] ECO Connection example

If you do not yet have the documents, you can find them on our website in the Downloads section:
www.innov.energy/en/downloads



Notes on the PV inverters

Not all photovoltaic inverters can be read directly and require the installation of an additional meter. You will find corresponding information in the login area of our website.



Notes for the installation of additional meters

If an additional meter is necessary, please use only the Carlo Gavazzi counters recommended by us. Please note the additional steps **marked in blue** for additional meters.



Notes for installation with emergency power

If you want to install a **salidomo**[®] with emergency power or island-capable, please observe the additional steps for emergency power installations **marked in green**.



Notes for the installation of MPPTs

During the installation, do not apply string voltage to the Victron MPPT until the salt battery storage system is fully installed. Please refer to the additional steps **marked in turquoise** for MPPTs.



Instructions for the installation of a **salidomo**[®] EXT

The installation of a **salidomo**[®] 9/18 differs from a **salidomo**[®] EXT. Please note the additional steps **marked in orange** for the installation of a **salidomo**[®] EXT.



Service **HOTLINE**

After installation, please dial the following service hotline number at the agreed time:

+41 33 552 10 30

1. Unpack

- 1.1 Carefully unpack the salt battery storage system
- 1.2 Check the salt battery storage system for transport damage and document with photos
If there is any transport damage, please report it in detail with attached photos at: support@innov.energy
- 1.3 Bringing the salt battery storage system to the installation site with the pallet scooter
If this is not possible, the side covers and the lid can be removed and the batteries can be taken out. The frame and the batteries can then be moved individually by hand to the installation site.
- 1.4 Check site conditions
ATTENTION: If one of the following characteristics is not given, an installation at this location is absolutely not recommended for safety reasons.
 - 1.4.1 Solid level ground (no clay soil)
 - 1.4.2 Dry environment (roofed and not exposed to moisture)
 - 1.4.3 No combustible materials in the vicinity (Straw/hay, substances containing solvents, fuel, etc.)
- 1.5 Unscrew the front panel at the rear and refit the spacers at the rear
The space provided by the spacers behind the storage unit is essential for sufficient air circulation.
- 1.6 Level the salt battery storage system using the adjustable feet at the bottom of the enclosure
If there is too much weight, the batteries can be removed for this purpose.

2. Working on the main distribution

- 2.1 Install circuit breaker for AC-in connection
- 2.2 Install an additional system switch depending on regional regulations
- 2.3 Lay and connect the electrical installation cable from the line circuit breaker to the AC-in of the salidomo® or to the connection box of the salidomo® ECO
- 2.4 Connecting the private meter in the main distribution board
- 2.5 Lay and connect the communication cable from the private meter to the salidomo®, in the case of salidomo® ECO, to the switch/router



2.6 Working in the main distribution with additional meters

If the photovoltaic inverter cannot be read out directly.

- 2.6.1 Mount additional meters
ATTENTION: The output of the PV inverter must be connected to the input of the meter.
- 2.6.2 Connect the communication cables of the additional meters with each other (see installation instructions)



2.7 Working on the main distribution with emergency power

- 2.7.1 Define emergency power-supplied group in the main distribution board
ATTENTION: Observe the maximum power of the battery inverters!
- 2.7.2 Install residual current circuit breakers or miniature circuit breakers/FILS in accordance with the regional regulations
- 2.7.3 Install the bypass switch according to the electrical diagram and set it to mains operation
- 2.7.4 Lay and connect the electrical installation cable from the AC-out of the salidomo® to the bypass switch in the main distribution board

3. Establish system connections

3.1 Connect the equipotential bonding cable to the earth terminal of the AC distributor in accordance with regional regulations

3.2 Connect the Ethernet cable (Internet) to the router

The following steps are not necessary for a salidomo[®] ECO:

3.3 Connect battery cable with red marking to the positive pole

3.4 Connect battery cable with black marking to the negative terminal

3.5 Connect the communication cable to the first battery and the GX controller

3.6 Connect the communication connection cable to the batteries if several batteries are connected to each other Node 2 to Node 3 (see installation instructions)

3.7 Connect the LED operating light to the salidomo[®] with the connecting cable



3.8 Making system connections with a salidomo[®] EXT

Additional system connection work for a salidomo[®] EXT. Please connect the following cables between the base rack and the extended rack on a salidomo[®] EXT 27/36:

3.8.1 Connecting the earth cable from the L2 inverter in the base rack and L3 inverter in the extended rack

3.8.2 Connect the DC connection cable between the batteries to the respective copper rails

3.8.3 Connect the communication cable from the L2 inverter in the base rack to the L3 inverter in the extended rack

3.8.4 Connect the communication cable from the last battery in the base rack to the first battery in the extended rack

3.8.5 Connect the communication connection cable to the batteries if several batteries are connected to each other (Node 4 to Node 5)



3.9 Making system connections with MPPTs

Additional system connection work with MPPTs:

3.9.1 Mount MPPTs

3.9.2 Connect the communication cable between the GX controller and the MPPT (Ve.Direct)

3.9.3 Connect the DC connection cable between the MPPTs and the respective copper bars in the salidomo[®]

4. Configuration and Commissioning

ATTENTION: The strings at the inverter on the AC-out may only be connected after the complete configuration!

4.1 Switch on the circuit breaker of the salidomo[®]

4.2 Configure photovoltaic inverters for communication

4.3 Configure photovoltaic inverter at AC-out for dynamic power limitation

4.4 With the salidomo[®] ECO, make the configuration in the Carlo Gavazzi counter

4.5 For meters with current clamps, set the transmission ratio

4.6 Current of the circuit breaker at the AC-in: A

4.7 Tripping characteristics of the miniature circuit breaker:
ATTENTION: If a salidomo[®] is installed in the vicinity of a transformer station, a type D characteristic must be selected because of the increased switch-on peaks.

5. Check communication

- 5.1 Set up and check the Internet connection
- 5.2 Check if the Victron Connect app can access the GX controller
- 5.3 Check that the following units are displayed in the unit list and in the Remote Console in the Victron VRM Portal:
 - 5.3.1 Private counter is visible
If not, please check all communication cable connections to the private meter again.
For **salidomo**® ECO, check the parameter settings of the Carlo Gavazzi meter.
 - 5.3.2 All batteries are visible in the Remote Console
If not, please check all communication cable connections of the batteries again.
 - 5.3.3 PV inverters are all visible
If not, check the settings according to the inverter instructions (see innoWIKI) (check sunspect protocol and node ID etc.).
 - 5.3.4 Battery inverter from Victron is visible
If not, please check all communication cable connections to the battery inverters.
 - 5.3.5 Additional counters are all visible
If not, please check all communication cable connections to the meters.
 - 5.3.6 MPPTs are all visible (PREREQUISITE: 48 volts must be applied to the DC rails)
If not, please check all communication cable connections to the MPPTs.
- 5.4 Compare EVU and private meters: both meters must display the same kW values
Minus sign = power output to the grid | Plus sign = power drawn from the grid



6. Characteristics of the PV inverter at AC-out (with emergency power)

We do not endorse any photovoltaic inverter on the AC-out and assume no responsibility for its functionality. If you nevertheless wish to install a photovoltaic inverter on the AC-out, please enter the following data in the fields provided and have it ready for the support telephone call. You will also need this data later for the acceptance protocol.

- 6.1 PV inverter type

Manufacturer:	<input style="width: 100%;" type="text"/>
Product name:	<input style="width: 100%;" type="text"/>
- 6.2 PV inverter power kW
- 6.3 Power of the mounted solar modules kWp
- 6.4 Has the 1:1 rule (factor 1 rule) been observed?
 - yes no

If not, all warranty services of all component manufacturers and warranty claims are void.
See contribution under: www.innov.energy/en/faqs/salt-battery/emergencypower-offgrid#c3346
We cannot guarantee functionality for dynamic IP addresses.