



STUDER VarioString VS-70 MPPT Solar Charge Controllers User Guide

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STUDER VarioString VS-70 MPPT Solar Charge Controllers User Guide



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Introduction

Congratulations!

You are about to install and use a high-end equipment that will play a central role in the energy management of your battery-based system. The variostring (vs) is a solar MPPT charge controller. When connected to a battery and photovoltaic panels the vs will recharge the battery in an optimum way. This vs has been designed, manufactured, assembled and tested in our factory in Switzerland. It has a 5-year warranty and is eligible for an extension 5+5.

General Information

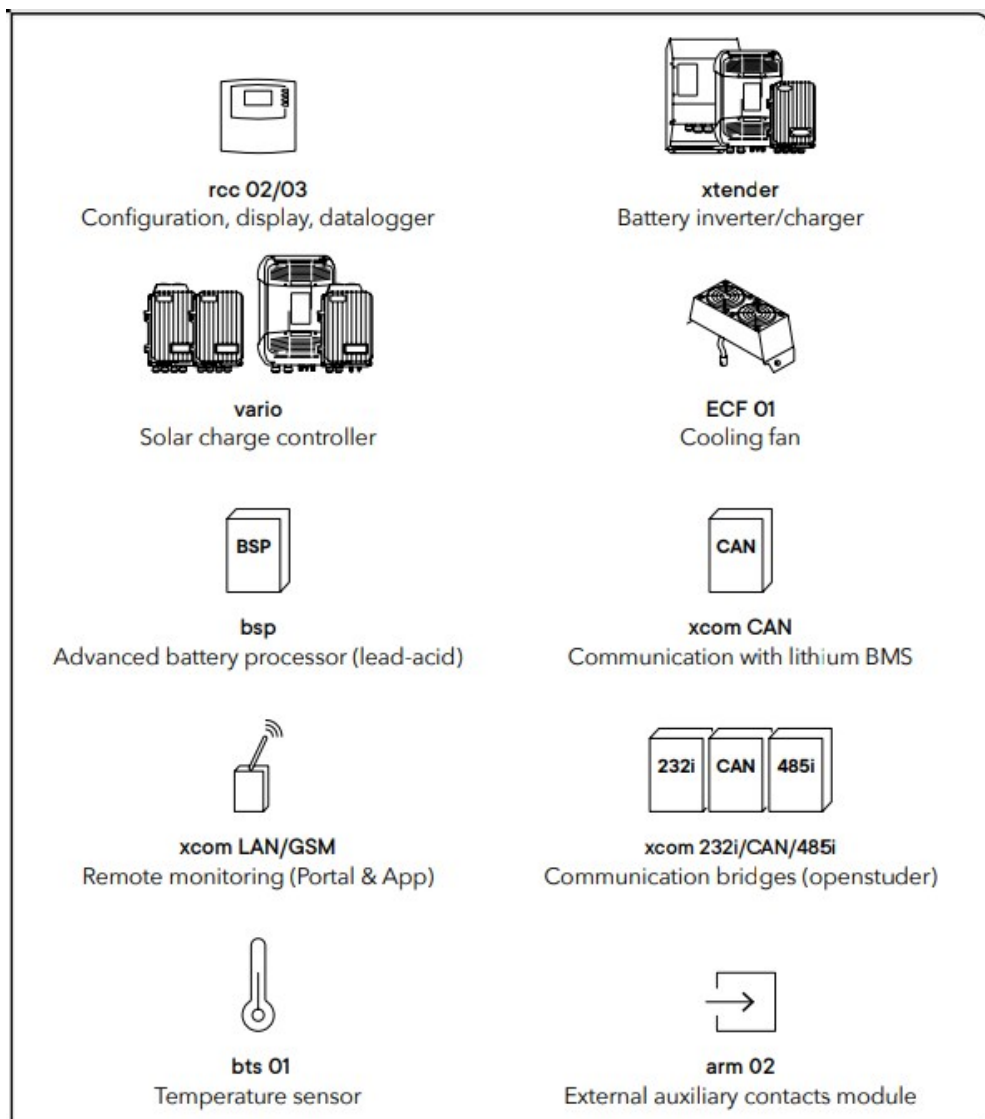
Exclusion of liability

Studer disclaims all responsibility and liability for damage, costs or losses resulting from an installation that does not comply with the instructions, a faulty operation or inadequate maintenance. The use of studer equipment is in any case under the responsibility of the customer.



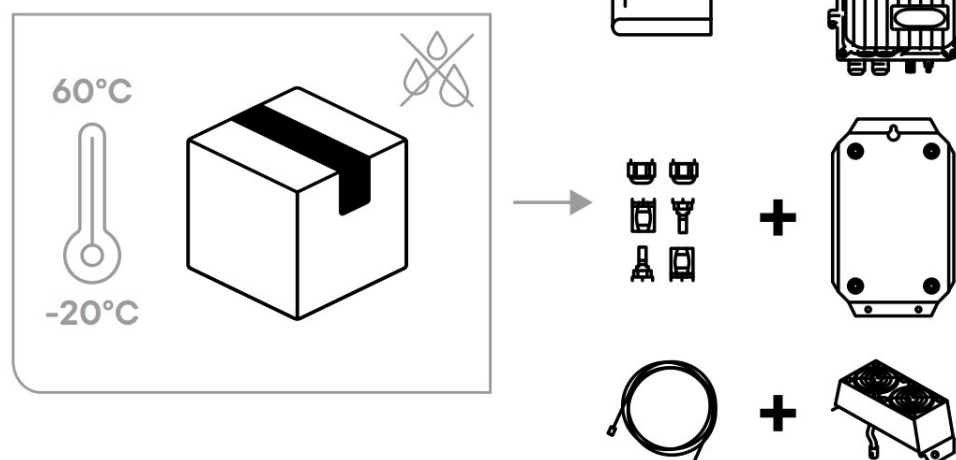
Read carefully the safety and operation instructions / Installation must be entrusted to qualified personnel / Check the user manual online / Need help?

Compatible with:



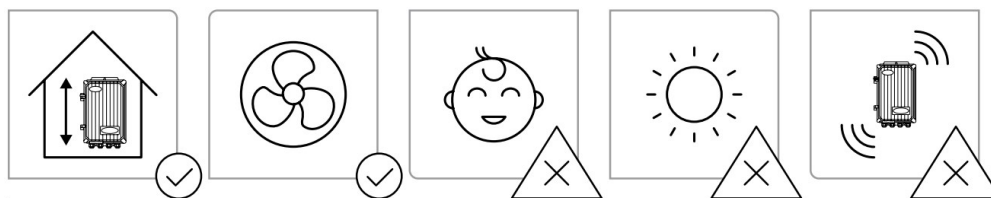
Mounting and installation

Storage and content

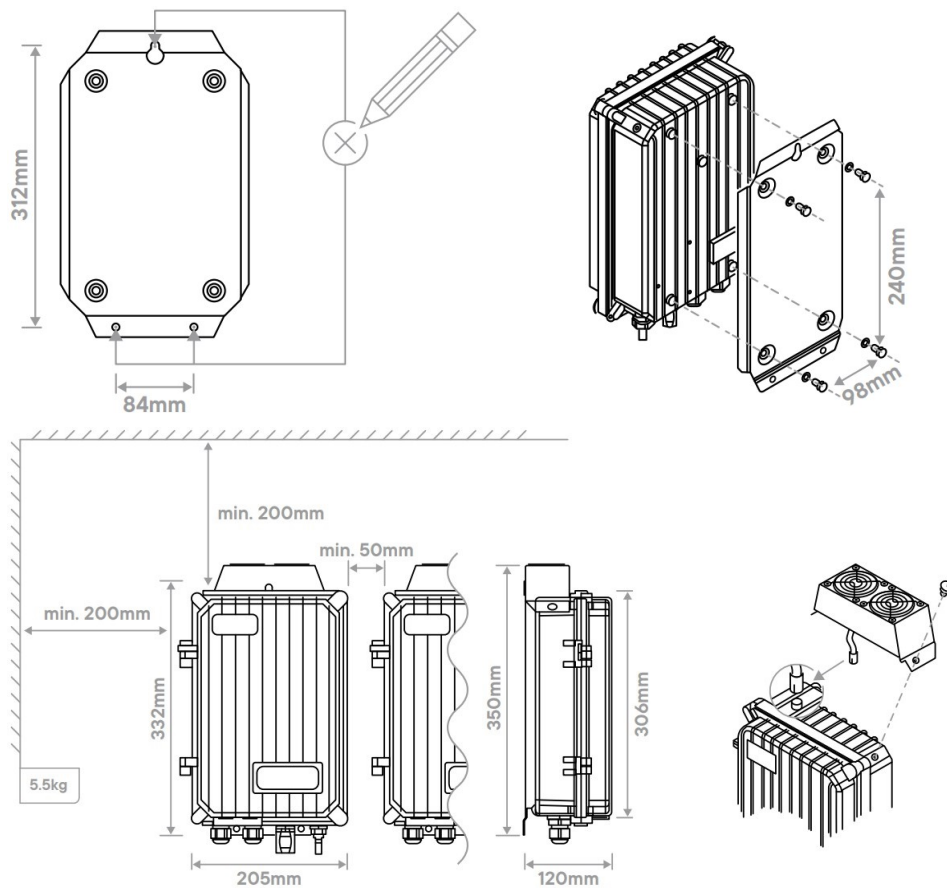


Mounting place

The batteries should only be installed by qualified personnel.

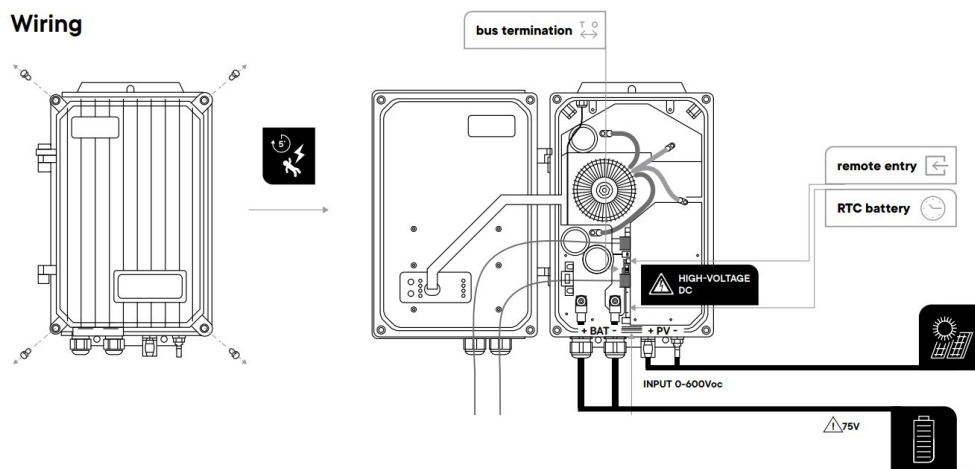


Fixing and dimensions



Wiring

Wiring



Communication

- 2x RJ 45 black flat cable : rcc 02/03 / multi-units : xtender, vt, vs, bsp, xcom
- 1x RJ 11 black flat cable for accessories : bts 01, arm 02

Earthing

- 16mm² cable
- The solar generator must be class II isolated

PV connection

- 2.5-6mm² cable, Sunclix connector

Protection device (PV side)

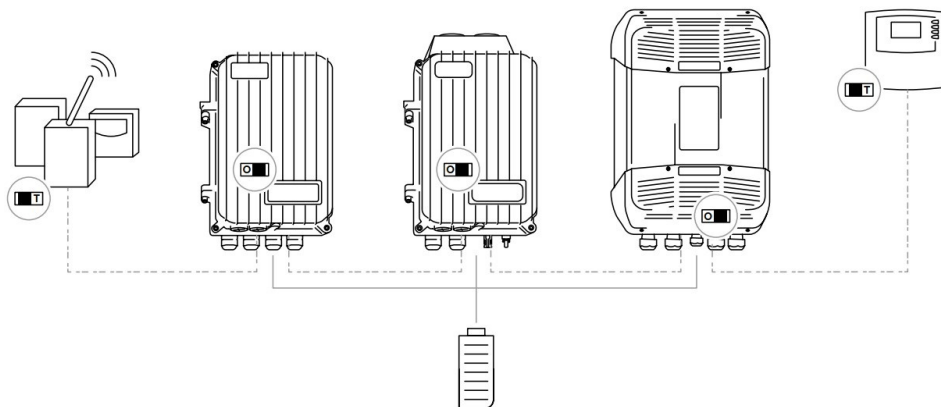
- Switching device, max solar current 13A
- Overvoltage protection, SPD (600Vdc)

Serial connection (chain or string), up to 600V

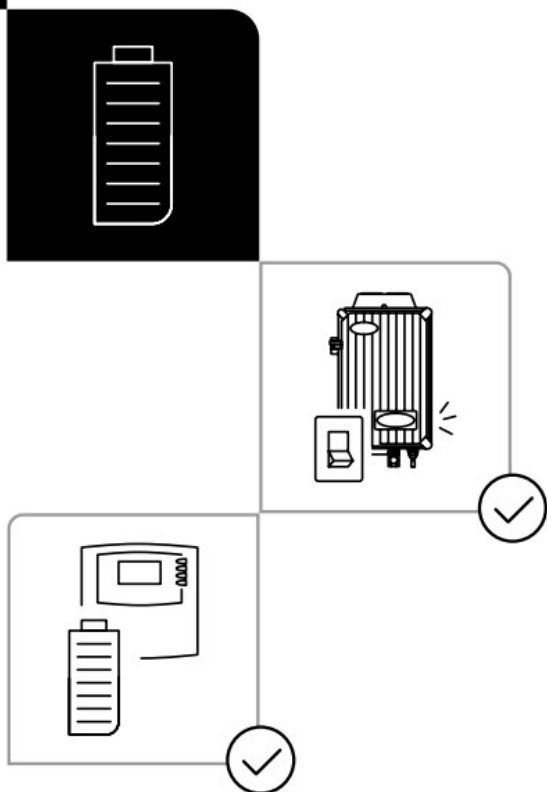
Battery connection

25mm² cable M6, 5Nm Protection device (battery side) 80A

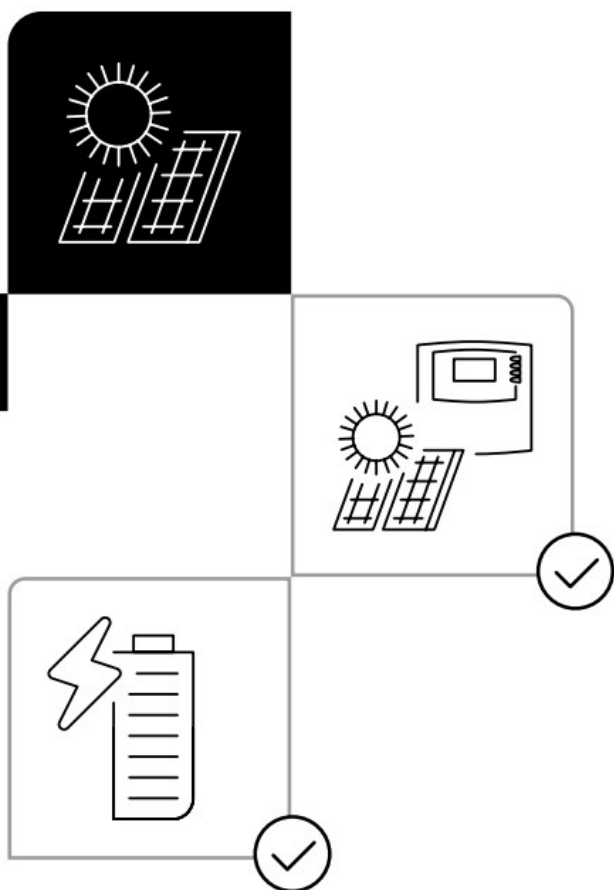
Multi units and power up



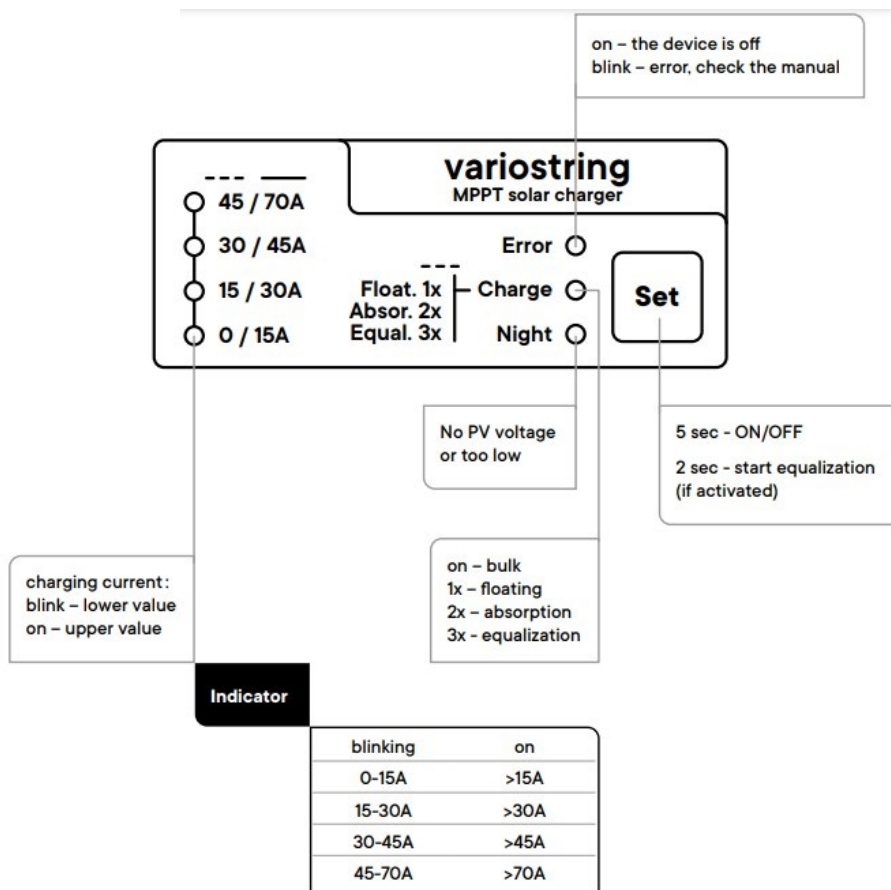
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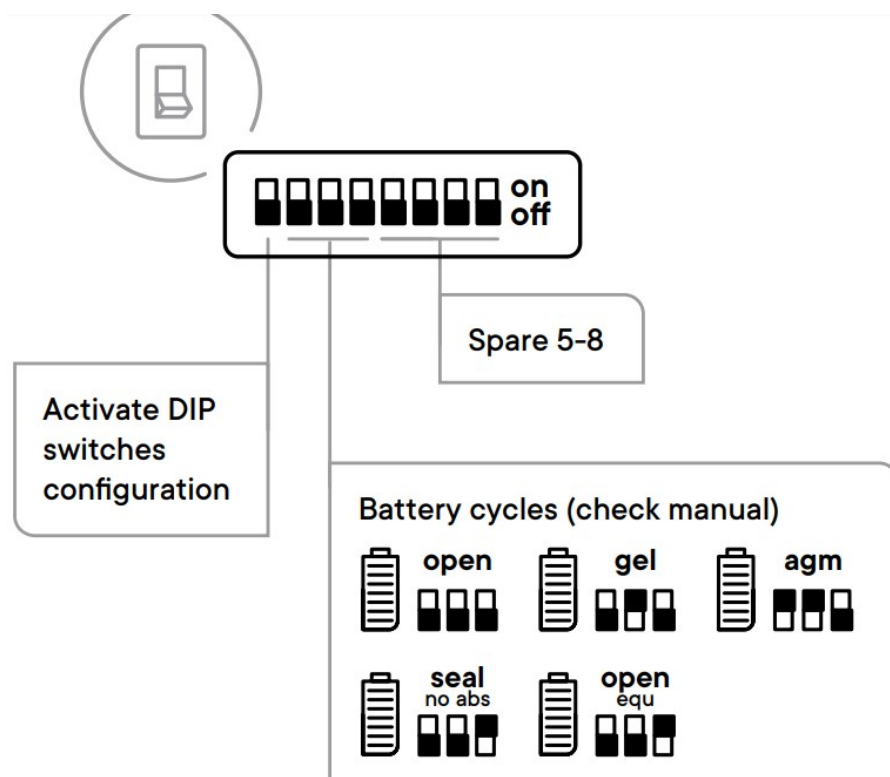
2



Display system



Configuring the variostring



Lead-acid

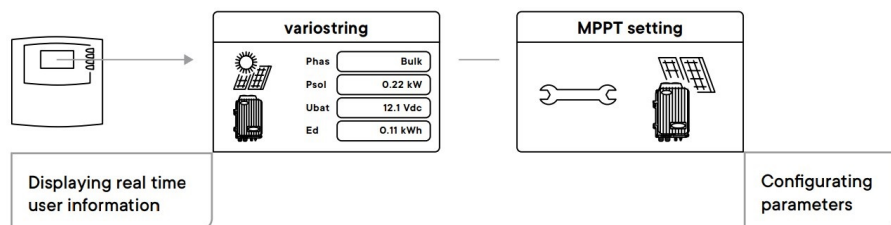
- Configure charge profile according to manufacturer

Lithium (comm BMS, xcom CAN)

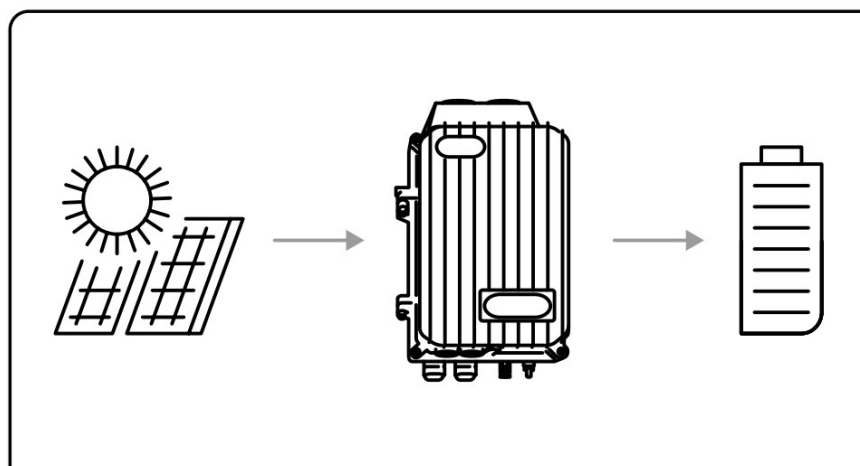
- Check compatibility list and xcom CAN manual

Others: NiCd, NiFe, Redox flow, saltwater, etc.

- Check battery manufacturer



Technical data



PV input voltage 100-600V

PV max current 13A

PV recommended power 4200W

Batt nominal voltage 48V

Batt charge current 70A

Batt min-max voltage 38-68V



Maintenance and recycling

Except for the periodic check of the connections (tightening, general condition), the variostring does not require any particular maintenance. To dispose of this product, please use the service for the collection of electrical waste and observe all obligations in force in the place of purchase.

Serial Number:.....

Installed by :.....

Date :.....


Signature.....

Call our specialists +41 27 205 60 80 or visit studer-innotec.com/support

Studer Innotec SA
rue des Casernes 57
1950 Sion, Switzerland
info@studer-innotec.com



Documents / Resources

	<p>STUDER VarioString VS-70 MPPT Solar Charge Controllers [pdf] User Guide VarioString VS-70, MPPT Solar Charge Controllers, Charge Controllers, MPPT Solar Charge, M PPT Controllers, Controllers</p>
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References

- [Testseite für grautvornix.de](#)
- [Assistance | STUDER](#)

[Manuals+](#)