



CONERGY

Charge controllers | Technical data

Conergy SCC vision

Conergy SCC vision charge controllers offer convenience, safety and flexibility for small to medium range standalone solar power systems.

Convenience: Simple symbols and a graphic display make it easy to read the level of battery charge and the system operation at any time. Loads can be switched on and off automatically, using the programmable night-light function. An integrated data logger allows the operator to download and analyze system data with an optional data readout interface. This allows in-depth analysis of system performance.

Reliability: All Conergy SCC vision charge controllers come with full electronic protection. All boards are spray coated with tropical protective coating, allowing them to be used in a wide range of climates. Acoustic alarms protect against over-discharging the batteries and help maximize battery life. These can be set using a choice of three parameters: Voltage, state of charge, or adaptive – a “fuzzy logic” control that is particularly effective at protecting batteries.

Flexibility: In most solar power systems, energy is wasted if the batteries are fully charged during good irradiance conditions. Conergy SCC charge controllers can control special loads like a fridge which uses this wasted energy improving the overall system efficiency. Conergy SCC charge controllers can be used with both flooded cell and Valve Regulated Lead Acid (VRLA) sealed batteries and system voltages of 12 or 24 V.



- | Graphic display with state of charge indicator
- | Programmable loads function
- | Automatic 12/24 V detection
- | Choice of three over-discharge protection modes
- | Acoustic alarm before load disconnection
- | Pulse-Width Modulation (PWM) technology
- | 3-stage (boost, equalize, float) battery charging
- | Integrated temperature compensation for battery charging
- | Full electronic protection
- | Tropicalized protective coating
- | Can accommodate cable size up to 16 mm²

Automatic detection	Flooded/VRLA	Adaptive deep discharge protection	Excess energy management	Night light function	DIN rail installation	16 mm ² AWG #6	PWM controller	Series controller	Tropicalized protective coating

	Conergy SCC 10 vision	Conergy SCC 20 vision	Conergy SCC 40 vision
Charging current max.	10 A	20 A	40 A
Load current max.	10 A	20 A	40 A
System voltage	12/24 V	12/24 V	12/24 V
Own consumption	< 4 mA	< 4 mA	< 4 mA
Dimensions (W x H x D)	198 x 105 x 40 mm	198 x 105 x 40 mm	198 x 105 x 40 mm
Protection type	IP 22	IP 22	IP 22

PHOTOVOLTAICS

Conergy SCC connector Conergy SCC com



Conergy SCC connector and Conergy SCC com: The high-performance connection from solar charge controllers of the Conergy SCC vision series, to your PC or laptop, for comprehensive analyses of off-grid solar systems.

For off-grid energy systems, it is important to be able to monitor and analyse the system status and performance data at any time. Conergy system components now enable all users to do this in a straightforward manner. The data is transferred from the solar charge controller Conergy SCC vision, via the Conergy SCC connector, to the software Conergy SCC com, where it is available for analysis.

Monitoring the current system status

Maintain an overview: The software Conergy SCC com informs you of the most important data regarding the battery, the system performance, and the settings of the solar charge controller, all at a glance, and also indicates the present levels of voltage and current.

Analysis of system performance

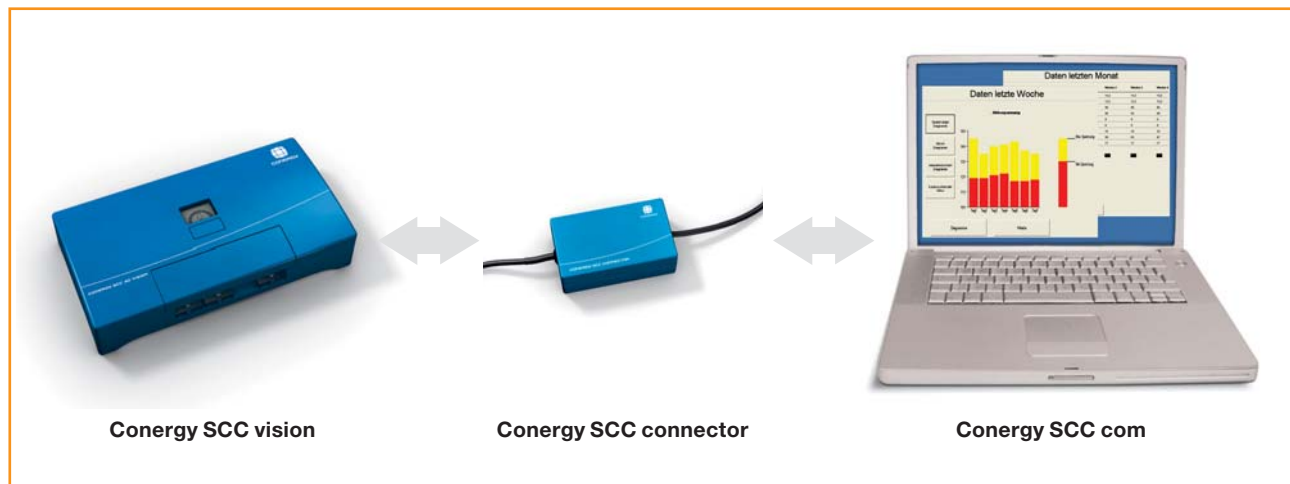
Voltages, currents, capacities and charge levels are indicated with detailed values and clear diagrams. For this purpose, the data of the past week, of the month, and of the year are available. Critical system statuses can thus be quickly identified and addressed.

Simplified configuration

The configuration of all Conergy SCC vision's programmable settings, which usually takes place directly at the device, can also be carried out comfortably via the software Conergy SCC com.

Comfortable data archiving

Conergy SCC com enables the analysis of several solar charge controllers, as the data can be stored internally, and re-imported. Furthermore, the data can be saved as a text file or Excel file, and imported into other applications, such as spreadsheet programs.



Measured values (selection)	Battery voltage; charge level (mornings and evenings); nominal current, module current, load current; module and load ampere hours; number of load disconnections, deep discharges; temperature	Scope of delivery	Conergy SCC connector, Conergy SCC com
Diagrams	Battery voltage; module current and load current; module, load and surplus ampere hours; charge level (mornings and evenings)	System requirements	Intel 386 or better (equivalent) Windows 95/2000/NT/XP Screen resolution 1.024 x 768 4 MB RAM USB port
Interface	USB	Available from:	
Housing dimensions (W x H x L)	73 x 43 x 12 mm		