



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

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