

Let's start - SOLARC!

First class solar technology!

SOLARC

Your industrial partner for the development and production of highly technological systems, converters and charge controllers.

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Join the independent mobile energy with us!



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Solar charge regulator SCC20

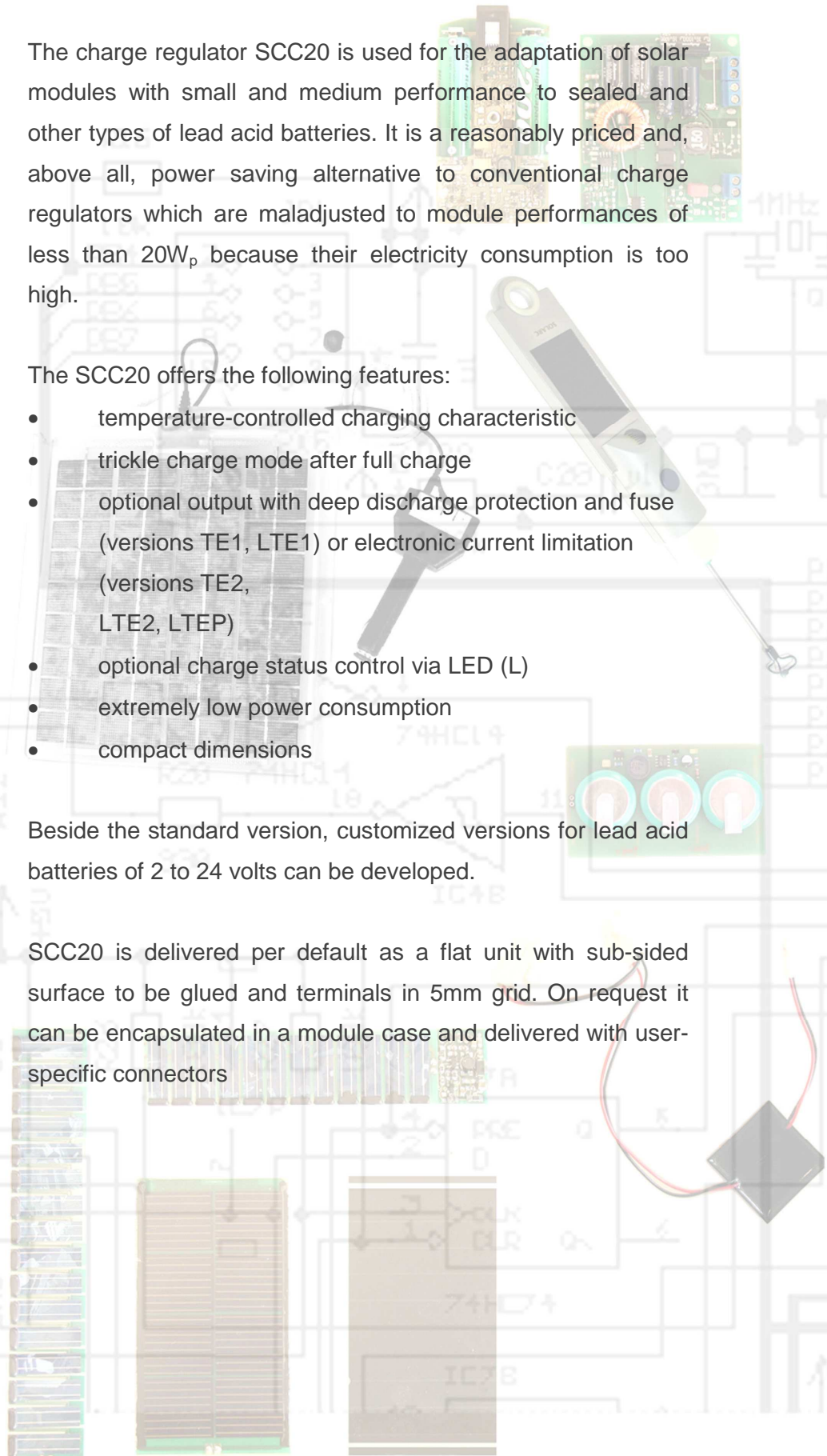
The charge regulator SCC20 is used for the adaptation of solar modules with small and medium performance to sealed and other types of lead acid batteries. It is a reasonably priced and, above all, power saving alternative to conventional charge regulators which are maladjusted to module performances of less than 20W_p because their electricity consumption is too high.

The SCC20 offers the following features:

- temperature-controlled charging characteristic
- trickle charge mode after full charge
- optional output with deep discharge protection and fuse (versions TE1, LTE1) or electronic current limitation (versions TE2, LTE2, LTEP)
- optional charge status control via LED (L)
- extremely low power consumption
- compact dimensions

Beside the standard version, customized versions for lead acid batteries of 2 to 24 volts can be developed.

SCC20 is delivered per default as a flat unit with sub-sided surface to be glued and terminals in 5mm grid. On request it can be encapsulated in a module case and delivered with user-specific connectors



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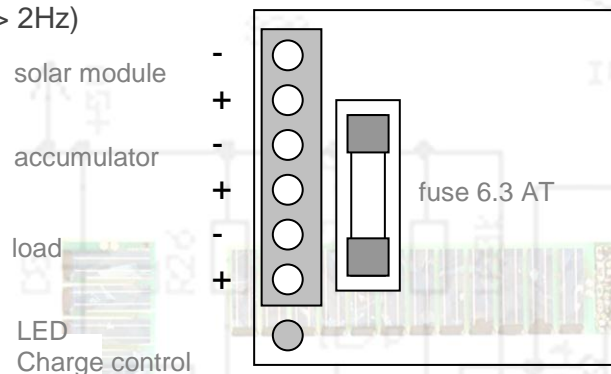
Technical Data

- Input voltage 15 -25V (at 25°C)
- Output voltage 14.4V / 13.8V \pm 0.2V (at 25°C)
- Input power max. 25W_p
- Output current max. 5A continuous
- Current consumption 15 μ A (SCC20-1), 25 μ A (SCC20-TE1), 75 μ A (SCC20-LTEP)
- Ambient temperature -30 ... +50°C
- Rel. humidity max. 95%
- Size (approx.) 38 x 38 x 15 mm / 40 x 40 x 20 mm in case (0.15 x 0.15 x 0.06 inches)
- weight approx. 15g (0.53oz)

Connection details SCC20 (vers. TE1, TE2, LTE1, LTE2, LTEP)

Example 12V solar system

- solar module $U_{mpp} = 17 \pm 2V$ / max. 1.5A
- battery SLA 12V / type 2 - 20Ah
- load 12V / max. 4A
- load shut down by fuse at $I_{out} > 6.3A$ (versions TE1, LTE1)
- battery shut down by fuse at reverse connection (versions TE1, LTE1)
- load shut down / current limitation by electronic short circuit protection at $I_{out} > 4.5A$ (versions TE2, LTE2, LTEP)
- charge control (trend display) by blinking LED \rightarrow higher frequency = higher charge status (empty at $< 1Hz$, full at $> 2Hz$)



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