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First class solar technology!

SOLARC
Your industrial partner for the development and production of high efficiency solar systems and charge regulators.

Start the future of independent mobile energy with us!

SOLARC
Innovative Solarprodukte GmbH
Gustav-Meyer-Allee 25
D - 13355 Berlin

Tel.: + 49 30 46307-165
Fax: + 49 30 46307-167
e-mail:service@solarc.de

web:www.solarc.de

Solar charge regulator SCC20

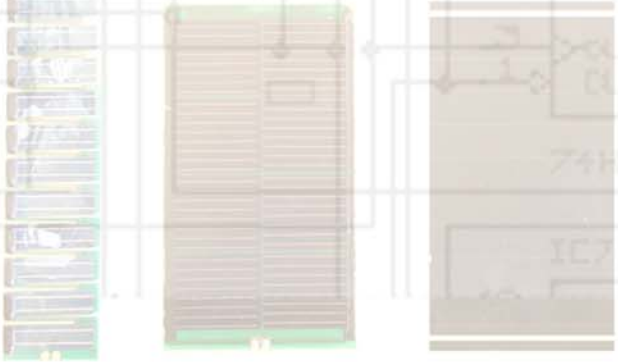
The charge regulator SCC20 is used for the adaptation of solar modules with small and medium performance to sealed and other types of lead acid batteries. It is a reasonably priced and, above all, power saving alternative to conventional charge regulators which are maladjusted to module performances 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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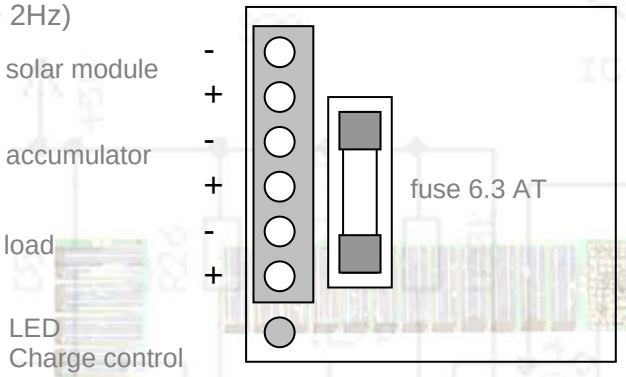
Technical Data

• Input voltage	15 -25V (at 25°C)
• Output voltage	14.4V / 13.8V ± 0.2V (at 25°C)
• Input power max.	$25W_p$
• Output current max.	5A continuous
• Current consumption	15µA (SCC20-1), 25µA (SCC20-TE1), 75µ A (SCC20-LTEP)
• Ambient temperature	-30 ... +50°C
• Rel. humidity	max. 95%
• Size (approx.)	38 x 38 x 15mm / 40 x 40 x 20mm 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 ± 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 → higher frequency = higher charge status (empty at < 1Hz, full at > 2Hz)



06/2007, subject to change without notice

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Your Sales Partner: