DCS and DCL

DC Voltage Converters

- **DC/DC converters extend users' applications**
- **Maximum output current adopts to output voltage**
- **Excess energy management system in DCL, makes the PV system more efficient**
- **Overheating protection extends product lifetime**
- **Display LEDs for "Power on" and "Current limitation", "Excess Energy" additional for DCL**
- **DIN-rail mounting adapter available**

The DCS is a DC/DC converter specially designed for PV systems. It enables a 12 V Battery Voltage to lower voltage DC appliances such as small radios or cassette players. The DCS utilizes innovative overheating protection which adapts the maximum output current to the output voltage in order to enhance product reliability and lifetime.
The DCL extends the functionality of the DCS by adding excess energy management functionality that provides usable energy that would normally be wasted because the battery cannot accept the extra solar energy. With DCL it is possible to charge a second battery with excess energy. This is widely used in mobile-homes and boats which often have a battery for the solar system and a second battery for starting the engine. Another typical application is to power a small fan for air exchange on a boat powered only with excess energy. Only your imagination limits the number of possible applications.

Type	**DCS, DCL**						
Nominal voltage	12 V						
Output voltage	1.5 V	3.0 V	4.5 V	6.0 V	9.0 V	12.0 V	13.6 V
Maximum output current	250 mA	300 mA	400 mA	450 mA	650 mA	1,000 mA	2,000 mA
Self consumption	6 mA						
Diameter wire	0.75 to 16 mm^2						
Temperature range	–20 to +50 °C						
Max. power dissipation	4 W						
Dimensions (B x H x T)	100 x 80 x 34 mm						
Weight	125 g						

*Can only be got when the input voltage is higher than 13.6 V.

Type	**DCL**
Nominal voltage 2nd battery	12 V
Float voltage 2nd battery	13.4 V
Max. charging current @13.4V	2 A

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