

SOLAR INVERTER

Sunways DC Load Break Switch DCL 04/05/10

The Sunways DC Load Break Switches comply with the standard DIN VDE 0100-712 and are obligatory for all PV systems planned from June 1, 2006. They have been adapted for use with the Sunways Solar Inverters of the NT series. All switches now carry out the specified DC isolation with their rotary switches. This ensures that the solar generator voltage to the Solar Inverters can be switched off during repairs and maintenance work. Thanks to their load switching capacity, the switches can easily be actuated during ongoing operation, i.e. in an emergency also with the system running.



Product features

- Complies with the new DIN VDE 0100-712
- High-quality, rugged devices
- Suitable for use with the Sunways Solar Inverters NT 2600 to NT 10000
- Simple installation
- Safe switching technology due to load switching capacity

Article No.

DC Load Break Switch DCL 04:	003016
DC Load Break Switch DCL 05:	003017
DC Load Break Switch DCL 10:	003015

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DCL 04 and DCL 05

The devices operate as generator connection boxes for the lines connected in parallel with a common output to the Solar Inverter. For the Solar Inverter NT 2600, NT 4000 and NT 5000 with up to 3 lines, you use the DCL 04. For the NT 6000, you choose the DCL 04 or DCL 05 depending on the solar generator design. When doing so, observe the maximum DC current of 16 or 25 A respectively.

Solar Inverter	Switch
NT 2600	DCL 04
NT 4000	DCL 04
NT 5000	DCL 04
NT 6000 (max. 16 A DC)	DCL 04
NT 6000 (max. 25 A DC)	DCL 05
NT 10000	DCL 10

DCL 10

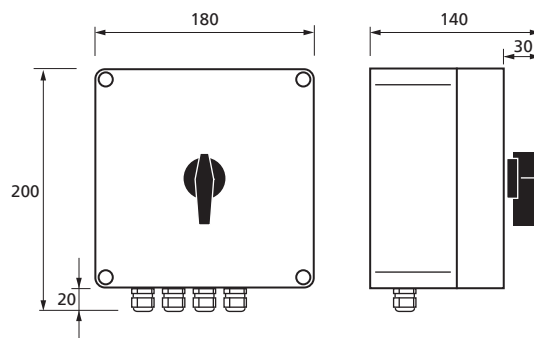
For the Solar Inverter NT 10000 with three MPP multitracking inputs, the matching switch is the DCL 10. It can electrically switch all three string separately.

Technical Data

DC Load Break Switch:	DCL 04	DCL 05	DCL 10
Function	2-pin switch and connection box for parallel connection of up to 3 strings	2-pin switch and connection box for parallel connection of up to 3 strings	6-pin switch and connection box for 3 separate strings
Operating temperature	-25 to +40 °C	-25 to +40 °C	-25 to +40 °C
Max. switching current	16 A (DC)	25 A (DC)	10 A (DC) per input
Max. switching voltage	900 V (DC)	900 V (DC)	900 V (DC)
Max. current through input terminals	10 A / terminal	10 A / terminal	16 A / terminal
Max. no. of strings/output	1	1	3
Protection class	II	II	II
Weight	1.5 kg	1.5 kg	2.0 kg
Max. cable cross-section:			
in input terminal	4 mm ²	4 mm ²	6 mm ²
in output terminal	6 mm ²	6 mm ²	6 mm ²
Cable glands	8 x M16	8 x M16	12 x M16
Max. cable diameter	10 mm	10 mm	10 mm
Protection type	IP 54	IP 54	IP 54

Dimensional drawings (dimensions in mm)

DCL 04, DCL 05



DCL 10

