

E-T-A DC Disconnect

Reliable Disconnection of Photovoltaic Systems



Technical Information

E-T-A DC Disconnect

It is a general fact that there is a growing demand for high-capacity DC disconnects as referred to in standards applicable to photovoltaic systems and fitted between the solar power modules and the power inverters. In addition it was our goal to provide reliable physical isolation of even 1,000 V DC in a very compact design.

The new E-T-A DC disconnect switch meets the challenge. It features hybrid technology and is the first E-T-A product which has explicitly been designed for

the photovoltaic market and its typical DC applications. Its enclosure is track-mountable and ideally suited for installation in distribution boxes.

The electronic control unit will interrupt the circuit, the mechanical part ensures double pole physical isolation, making this technology also suitable for ungrounded systems. In addition the hybrid function allows reliable disconnection also in the event of low currents and ensures a low-wear contact system. The hybrid

functional principle does not require any additional power supply for the electronic unit.

The modular design allows other versions, e.g. remote ON/OFF, low voltage trip, arc detection and/or status queries. It is also possible to use the product in inverters by means of a modified enclosure or a modified mounting method – please enquire.

Technical data

Rated operational voltage	max. 1,000 V DC
Rated operational current	max. 30 A
Ambient temperature	-30 °C...+60 °C
In accordance with	IEC/EN 60947-3
Fail-safe function	integral
Dimensions (w x h x d)	99 x 90 x max. 92.5 mm

Features and benefits

- Designed for the photovoltaic market and its requirements
- Double pole DC Disconnect
- Screw terminals for cable cross sections up to max. 16 mm² für PV+ and PV-
- Design in accordance with DIN 43880 for rail mounting
- Lock-out feature in OFF position



E-T-A DC disconnect for photovoltaic systems



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