DEHNguard ME DC Y 1000 FM

For maximum system and operational safety

Source: CHARGE-V GmbH

SURGE PROTECTION
Properly protected – safe charging!

The universal type 1 + 2 DEHNguard ME Y 1000 FM combined arrester is specially designed for use with direct current sources. In the event of an overload, the DC switching device DCD (DC-Disconnection) safely disconnects the protective device.

Your benefits at a glance

IEC 61851-23 E-Mobility

Compliant with the IEC 61851-23 standard: Optimised protection level of 2.5 kV to protect the charging infrastructure and the electric car.

Specially for systems: with a continuous operating voltage up to 1000 V DC.

Universal use: in the dispenser, battery storage system and charging infrastructure – with and without external lightning protection.

Uncomplicated module replacement: The modules can be replaced individually – simply, thanks to plug & play, and safely, thanks to coding.

Permanent monitoring via floating remote signalling contact: always reliably informed about the status.

Lightning and surge protection for DC applications up to 1000 V

The DEHNguard ME DC Y 1000 FM is crucial for protecting charging stations and any connected electric vehicles from damage caused by lightning strikes or surges and making sure that the charging process runs smoothly. This ensures constant availability and protection against hazards.

The DEHNguard ME DC Y 1000 FM is used to avoid the hazards of major damage and downtime. The DCD technology specially developed for use in high-power charging, safely interrupts any DC switch arcs that may occur. This can prevent fire damage.

Technical Data

Type	DG ME DC Y 1000 FM
Part No.	**972 147**
SPD classification	Type 1 + Type 2
Max. continuous operating voltage (DC)	1000 V
Lightning impulse current (10/350 µs) I_{imp}	5 kA
Nominal impulse discharge current (8/20 µs) I_n	12.5 kA
Voltage protection level [(DC+/DC-) --> PE] U_P	< 2.5 kV
Without additional backup fuse	up to 500 A

Have you given a thought to protecting battery storage systems?

The effects of lightning discharges pose a serious threat to battery storage systems. The surges resulting from this exceed the dielectric strength of the installed electronic components inside the storage system many times over. Constant availability of these storage systems is a decisive factor for the energy revolution.
The DEHNguard ME DC Y 1000 FM is used in DC battery storage systems up to a maximum short-circuit strength (I_{SCCR}) ≤ 100 kA t ≤ 7.5 ms.

DEHNconcept offers planning support for the creation of a protection concept and calculations for external and internal lightning protection. We will not only design the entire lightning and surge protection system for you, but also an appropriate earth-termination system that meets the normative requirements. From budget planning and risk analysis to the finished concept. In addition, specific sub-services of DEHNconcept include simulations of the earth-termination system with regard to step and touch voltage in transformer stations.

Learn more about DEHNconcept:
www.de.hn/am47Z

Technical Support
Phone: +49 9181 906 1750
E-mail: technik.support@dehn.de

DS302/EN/0224

Learn more about DEHNguard ME DC Y 1000 FM:
www.de.hn/k4RwL