

19" Technology

# Switch off- and discharge unit

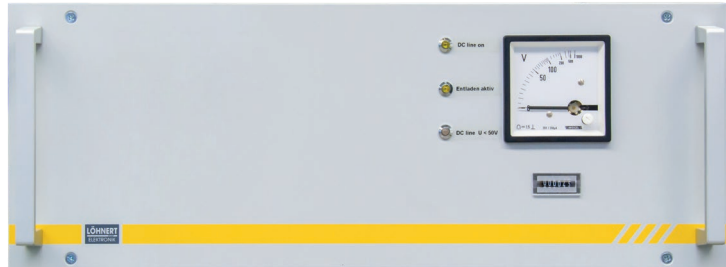
L2004004



- Safe switch-off and discharge of DC circuits
- Voltage range from 15 V DC up to max. 750 V DC
- Current range from 1 A to 60 A
- Application: Switch-off and short-circuiting unit for DC link test

Product information

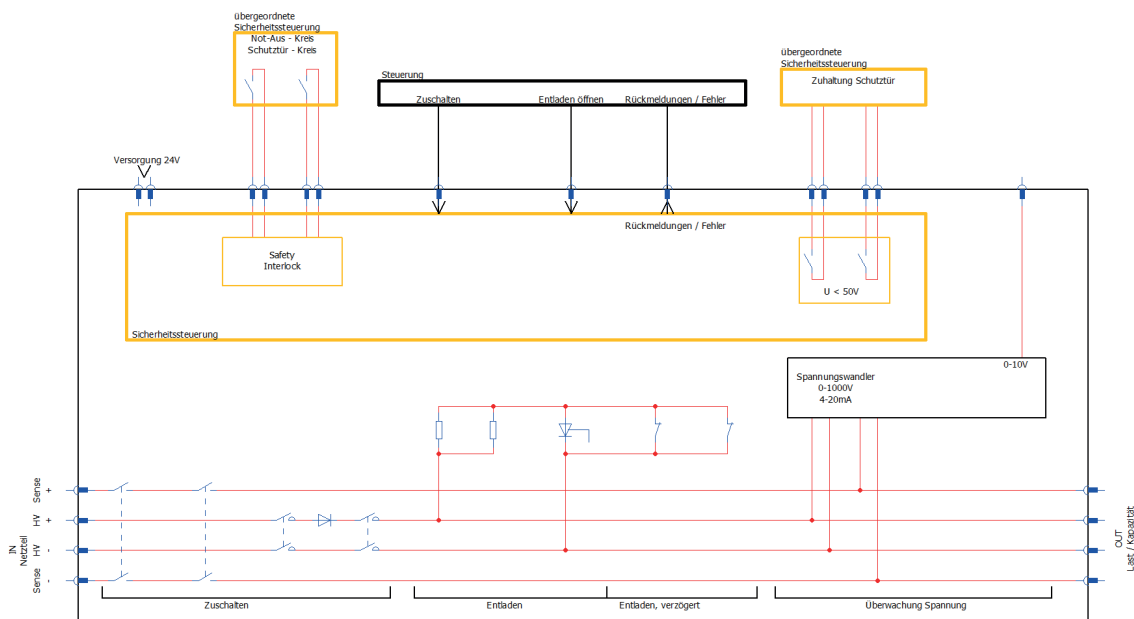
When testing power electronics with high DC values it is necessary to make sure that the test circuit and the DUT are de-energized at the end of the test.



For this purpose, Löhnert Elektronik developed a switch-off and discharge unit which ensures the safe switching off and monitoring of DC circuits with 15 V DC up to max. 750 V DC and max. 60 A DC.

The switch-off and discharge unit is installed between the power supply and the test circuit and, after being switched off, ensures a controlled discharge of the DC voltage circuit. At a voltage  $U < 50$  V DC the safety circuit of the test equipment is released. The switch-off and discharge unit is integrated into the safety circuit of the system.

In case of an emergency stop the switch-off and discharge unit immediately switches off the DC circuit. Three light signals and a voltmeter indicate the status of the unit. High-voltage and sense circuits are connected by plug-in connectors. There is a 2-channel communication to the higher-level safety control (redundant).



Product information

## Technical Data

Supply voltage:	24 VDC
Cut-off ranges:	Current range HV: up to 60 A Current range Sense: up to 5 A Voltage range HV: 15 V DC to 750 V DC
Release safety circuit:	U < 50V DC
Status display:	3 light signals on the front Yellow = DC line on Yellow = discharge Green = DC line open U < 50 V DC Voltmeter = voltage display Counter = number of circuits
Connections:	HAN modular plug-in connector Sub-D9 interface
Structure:	2-channel
Protection type housing:	IP30
Protection class:	Protection class 1 / protective conductor connection, conductive housing
Performance Level (PL)	Safety-related disconnection of HV line during opening of the contactors, safety-oriented preventi- on of switching on when safety guard is open PL e  Safety-related disconnection in case of emergency PL e  Safety-related prevention of release of the guard locking with residual voltage in the load circuit lower than 50 V PL d
Installation specification:	at least IP54
Mounting position:	horizontal
Mounting type:	19 inch mounting
Height:	4 U
Depth:	approx. 600mm
Ambient temperature:	0 – 55 °C
Certificate:	EC Declaration of Conformity