

# DC/DC converter

## DC 750V/24V

DCW180 

DC/DC converter DC 750V/24V or 28V

### Description:

The type DCW180 is a high voltage DC/DC converter. The DCW180 working with a nominal input voltages of DC 750V traction current system. It is normally used to supply controlequipment with the necessary supply voltage of DC 24V.

The DCW180 was designed for low power applications with power consumption less then 180 Watt that correspond to a current of max.7,5A (24V).

The DCW180 was designed as a switch controler with modern SMD technology. The control signals are transmitted via high voltage opto copplers. The internal transformer works efficient. On this way the galvanic separation between high and low voltage side is provided.

The DCW180 working area is about DC 500V to DC 1050V. If the voltage exceed 1050V or fall under 500V the DCW180 switched off automaticly. If the input voltage come back to the working area it restarts automaticly.

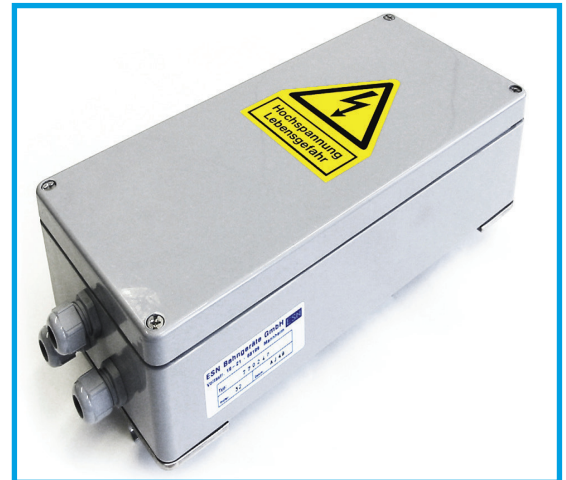
The input is saved by a 1,2kV / 500mA DC fuse. The output side is short circuit protected.

To guarantee working after switch on the DCW180 the output is switched on by a time delayed (about 2s).

A green LED indicator shows working of DCW180. The LED should not puls or flicker. If do so switch off immediately! In this case the DCW180 doesn't work properly.

Inside of the DCW180 is installed an independent working overtemperature sensor.

Please see the complete range of brochures for further DC/DC converters.



### Technical data

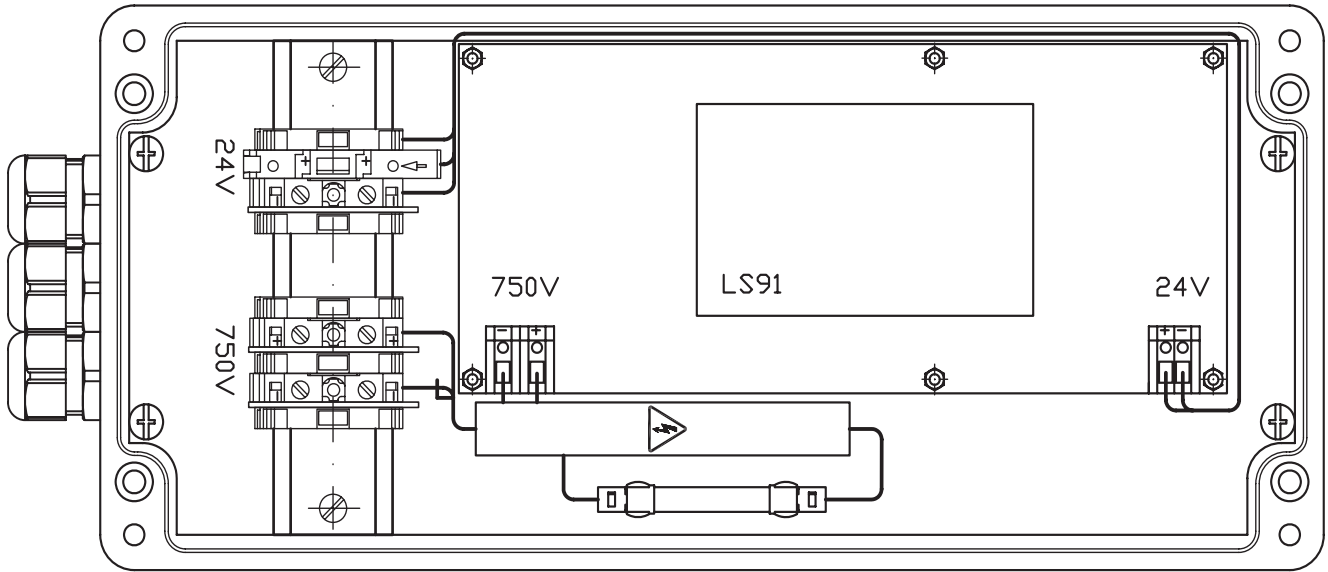
Dimensions	W/H/D 125/103/102 mm
Casing	Polycarbonate with GF, black
Mounting	screw mounting on mounting plate or pole mounting
Protective system	Casing: IP 65; terminals IP: 10
Ambient temp.	-20° C to + 50° C
Connections	3 glands M20 x 1.5 mm , screw terminals for input- and output voltage
Supply terminals	terminal +; terminal -
Output terminals	terminal + , terminal -
Input voltage	DC 750V -30% to +20%;
Output voltage	DC 24V, max. 7,5A, Output voltage is switched on time delayed (about 2s)
Overtemperature sensor	switched off if temperature exceeds 65°C
Indicator	1 green LED for converter working
Test voltage	4 kV <sub>eff.</sub>

### Ordering Information

Type	Part No.
DCW180	770350

DCW120

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DC/DC converter for general control application

