

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

DCW50

ESN

Description:

The type DCW50 is a high voltage DC/DC converter. The DCW50 working with input voltages from a DC 600V or 750V traction current system. It is normally used to supply control equipment with the necessary supply voltage (DC24V) or to charge lead accumulators (DC 28V).

The DCW50 was designed for low power applications with power consumption less then 50 Watt that corresponds to a current of max.2A (24V) or 1.75A (28V).

The DCW50 was designed as a switch controller with modern SMD technology. The control signals are transmitted via high voltage opto couplers. The internal transformer works efficient. On this way the galvanic separation between high and low voltage side is provided.

The DCW50 working area is about DC 400V to DC 1050V. If the voltage exceeds 1050V or falls under 300V the DCW50 switches off automatically. If the input voltage comes back to the working area it restarts automatically.

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 DCW50 the output is switched on by a time delayed relay (about

2s).

A green LED indicator shows working of DCW50. The LED should not puls or flicker. If it does so switch off immediately! In this case the DCW50 doesn't work properly.

Inside of the DCW50 is installed an independent working overtemperature switch. It is available on output terminals to signal overtemperature to a controller.

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



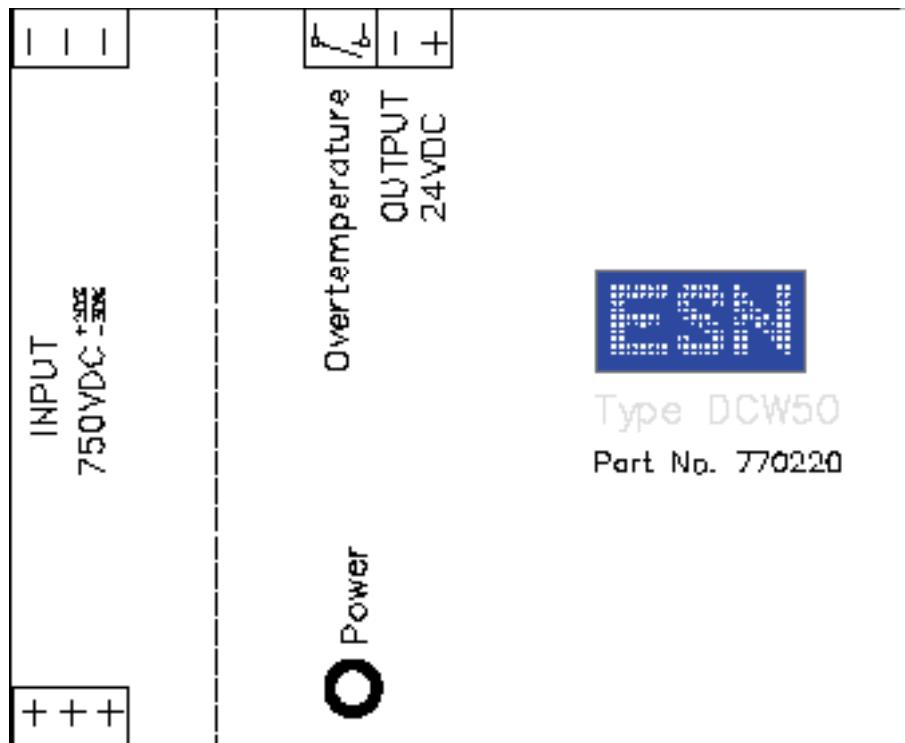
Technical Data

Dimensions	W/H/D 125/103/102 mm
Casing	Polycarbonate with GF, black
Mounting	top hat rail in acc. with DIN EN 50022
Protective system	Casing: IP 40; terminals IP: 10
Ambient temp.	-20° C to + 50° C
Connections	2 plugs 3 X 2.5 mm ² solid in acc. with DIN 46288 or 3 x 1.5 mm ² with sleeve, 1 plug 4 X 2.5 mm ² solid in acc. with DIN 46288 or 3 x 1.5 mm ² with sleeve, terminal +; terminal -
Supply terminals	terminal +; terminal -
Output terminals	terminal +, terminal - overtemperature switch
Input voltage	DC 750 V -30% to +40%; max. 55 W,
Output voltage	DC 24V, max. 2A, Output voltage is switched on time delayed (about 2s)
Overtemperature switch	contact closed if temperature exceeds 85°C
Contact ass.	AC 250 V / 4 A cos phi > 0.7
Indicator	DC 120 V / 1 A resistive load
	1 green LED for converter working
	4 kV

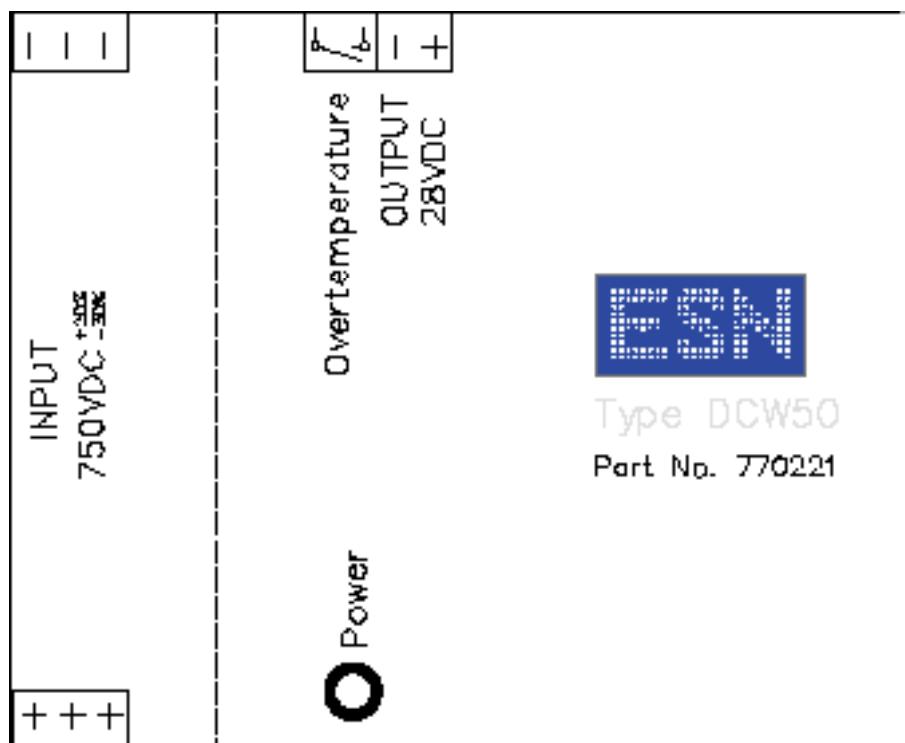
Ordering Information

Type	Part No.
DCW50-24	770220
DCW50-28	770221

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DC/DC converter for general control application



DC/DC converter to charge 24V lead accumulators