



ELDRIVE AS

dc150

DC-DC CONVERTER



The DC-150 is an non-insulated “Step-Down” type DC-DC converter, designed for use in rough electrical environments.

The device is equipped with a solid input transient filter, feeding the switching elements working at an optimum frequency of 170 kHz. On the output side resides an output filter for smooth and EMC-friendly operation, as well as a 15V crow-bar and short-circuit protection - all for the benefit of equipment being attached to the 12V output.

The DC - 150 supplies a constant voltage to the load independent of variation on battery voltage. The converter is specially designed to supply power for light equipment.

Technical data:

Input voltage :	(16 - 55) Vdc
Output voltage range :	(12,5 - 12,8) Vdc over 0,1 -12A load
Load regulation :	± 240mV max over (5-100)% load
Line regulation :	± 240mV max within specified operating range
Dynamic regulation :	Max. ± 1V for 5% to 100% load changes (or reverse)
Recovery time:	100ms
Output current :	12 Amps Max. current
Short circuit protection:	Yes. Continuous
Short circuit current limit :	16 Amps (With autorecovery) (UI-characteristic)
Output ripple :	Max 200mV p-p at full load
Operating frequency :	170 kHz (± 20kHz)
Inrush current :	60 Amps peek, typical < 2ms (48V)
Reverse voltage protection :	Yes. Serial Diode gives no fuse blown
Input voltage transients :	± 200V for 50m s. Repetition rate 300Hz
Input / Output isolation :	None. Direct minus connection.
Efficiency :	84% at 48V and 6 Amps load
Operating Temp. Range :	-20 to +55 ° C, base plate temp max 30 ° C above ambient
Fusing :	External
Electrical Terminals :	5mm bolts
Heat Transfer :	Through Base Plate to Chassis
Encapsulation :	IP 55 (Moulded, Anodized aluminium)
Immunity :	EN 50082-2
Emission :	EN 50081-1, EN 50022-B
Safety :	EN 1175-1
Package size :	112mm x 150mm, Height 50,6mm
Weight :	1,5 kg / 3 lbs.

For further information, please contact:

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