

DC-Converter

Type DCW-5751

The DC-converters are used to convert load voltages from 24V to 125V out of a central battery from 24 up to 372V

The converters are of the newest state of the art, in switched-primary construction. An unlimited number of units can be connected in parallel.

The operation status of each unit is displayed with LED's. Test sockets are available for current and voltage measurements. The connection is made at the front of the unit. The modules are protected by external fuses.



Special features:

- High efficiency
- Compact design
- Easy accessible connection
- Without fans
- Noise ≤ 1 mV (24 V)
 ≤ 2 mV (48/60 V)



High test voltages

According to German Railway standard

Input – Output: 3.75 kV rms
Input – Ground: 2 kV rms
Output – Ground: 2 kV rms



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Technical Data		
Input voltage:	V	see table
Voltage range:	%	-15 to +20 (-10 at 24/48 V input voltage)
Admittable ripple	%	≤ 5 rms.
Accuracy:	%	± 5
Regulation of output voltage:	%	± 1
Ripple of output voltage:	%	< 1 eff.
Short circuit behavior:		Short circuit proof
Efficiency:		See table
EMC:		EN 61000-6-2 and EN 61000-6-4
Ambient temperature:	°C	-5 ... +40 °C
Permissible climate:		Indoor, 3K3 according to EN 60721 (max. 85% rel. humidity, no condensation)
Max. altitude:	m	1000 m above sea level at nominal load
Supervisions / signals:		Different according to type
Remote contacts:		Operation / Failure (floating)

Standard types

Input voltage V	Output voltage V	Output current A	Efficiency %	Dimensions width x height x depth mm	Cooling 1)	Weight kg
24	12	16	> 77 %	88 x 304 x 352	AN	3,6
24	24	16	> 83 %	88 x 304 x 352	AN	3,6
24	46/60	8	> 85 %	88 x 382 x 352	AN	3,6
48	24	25	≥ 82 %	88 x 304 x 352	AN	3,8
48	48/60	10	≥ 86 %	88 x 304 x 352	AN	3,6
60	24	25	> 84 %	88 x 304 x 352	AN	3,6
60	48/60	10	> 90 %	88 x 304 x 352	AN	3,6
60	48/60	20	> 90 %	132 x 355 x 442	AN	7,4
60	100	6	> 89 %	88 x 304 x 352	AN	3,6
60	120	2,5	> 89 %	60 x 304 x 312	AN	2,8
110	24	65	88 %	180 x 355 x 303	AN	8,6
110	48/60	25	91 %	180 x 355 x 303	AN	8,6
110 (120)	110 (125)	15	> 92 %	180 x 355 x 303	AN	8,6
220	24	25	> 85 %	88 x 304 x 352	AN	3,6
220	24	65	> 89 %	180 x 355 x 303	AN	8,6
220	24	130	> 93 %	241 x 445 x 303	AN	17
220	48/60	25	> 92 %	180 x 355 x 303	AN	8,6
372	24	25	> 86 %	88 x 304 x 352	AN	3,6

¹„AN“ natural convection

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subject to change without notice.

D-86956 Schongau Im Forchet 3
D-86952 Schongau, Postfach 12 48
Tel. (08861) 209-0, Fax (08861) 209-180



A-6401 Inzing/Tirol, Schießstand 2
Tel. (05238) 54209-0
Fax (05238) 54209-23

E-Mail: vertrieb@gustav-klein.com Internet: www.gustav-klein.com