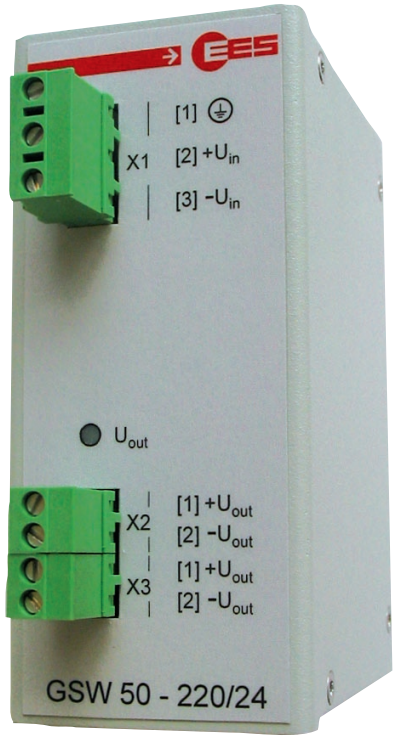
Power supplies



GSW - DC converter 20 W and 50 W

- Input voltage range 60, 110 and 220V DC
- Other voltages on request
- Short-circuit and overload resistance of the output current
- Operation monitoring by LED
- Mountable on DIN-rail

Datasheet

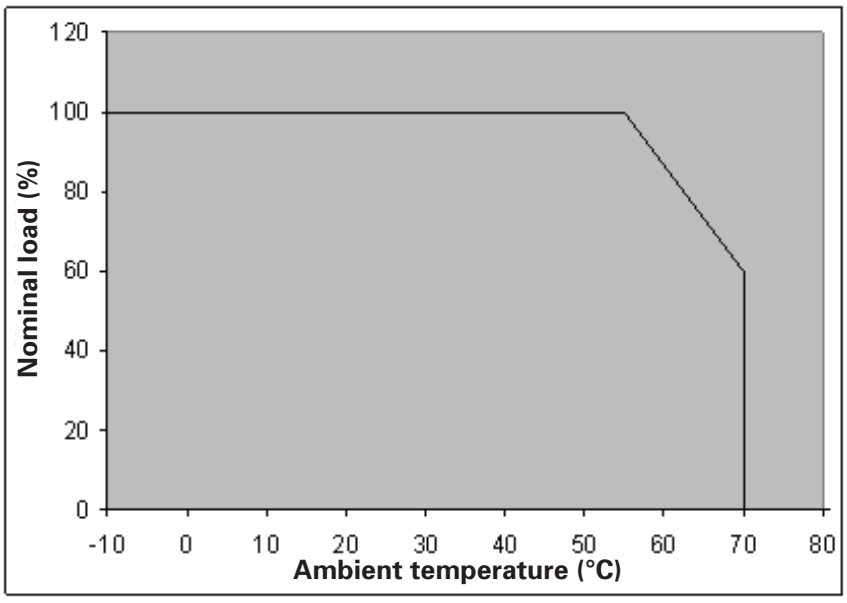
14.10.2009

SV-GSW-DB-UK-004

Technical data

Article-No.	106GSW022J1	106GSW022F1	106GSW022E1	106GSW052J1	106GSW052F1	106GSW052E1
Description	GSW 20-220/24	GSW 20-110/24	GSW 20-60/24	GSW 50-220/24	GSW 50-110/24	GSW 50-60/24
Input						
Nominal voltage	220 V DC	110 V DC	60 V DC	220 V DC	110 V DC	60 V DC
Voltage range	130 … 370 V DC	66 … 160 V DC	36 … 72 V DC	130 … 370 V DC	66 … 160 V DC	36 … 72 V DC
max. input current (< 1 ms)	< 20 A @ 220 V	< 10 A @ 110 V	< 20 A @ 60 V	< 20 A @ 220 V	< 10 A @ 110 V	< 20 A @ 60 V
Power consumption unloaded	≤ 1 W	≤ 2 W	≤ 2 W	≤ 1 W	≤ 2 W	≤ 2 W
Output						
Nominal voltage	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC
Accurancy (0 ... 100% load)	≤ 2 %	≤ 1 %	≤ 1 %	≤ 2 %	≤ 1 %	≤ 1 %
Ripple	≤ 240 mVp-p	≤ 100 mVp-p	≤ 100 mVp-p	≤ 240 mVp-p	≤ 100 mVp-p	≤ 100 mVp-p
Nominal current	0,85 A	0,85 A	0,85 A	2,1 A	2,1 A	2,1 A
Temperature coefficient	± 0,03 %/K (0 ... 45 °C)	± 0,02 %/K (0 ... 45 °C)	± 0,02 %/K (0 ... 45 °C)	± 0,03 %/K (0 ... 45 °C)	± 0,02 %/K (0 ... 45 °C)	± 0,02 %/K (0 ... 45 °C)
Output power nominal	20 W	20 W	20 W	50 W	50 W	50 W
Output power maximum	35 W*	25 W*	25 W*	60 W	50 W	50 W

* Maximum output power on 30% dutycycle / min; only at reduced ambient temperature (see chart „output voltage“)



Tolerable output power in dependency of the ambient temperature

More output voltages on request

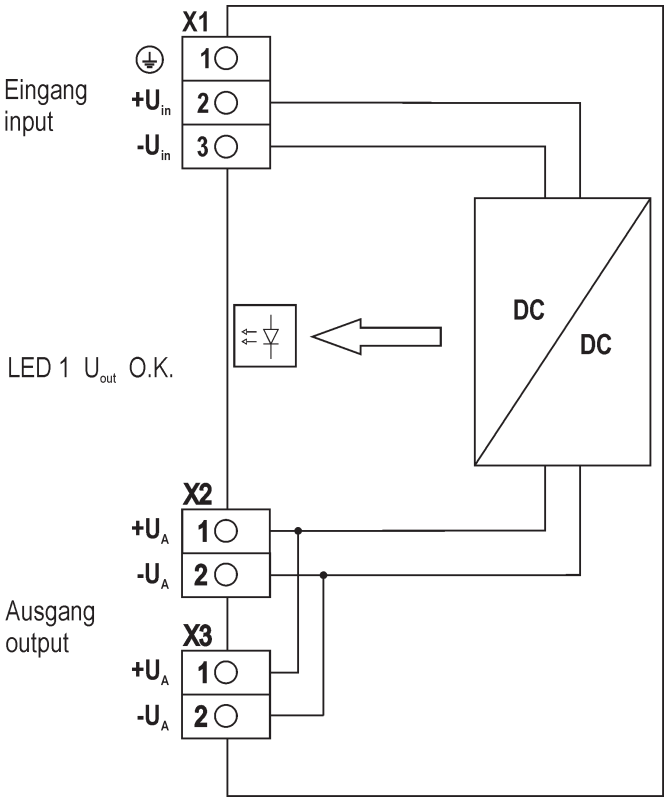
Technical data

Insulation resistance	
Primary side against secondary side and primary side against functional earth and secondary side against functional earth	100 MΩ @ 500 V DC acc. to EN 60950-1
Insulations voltage effective	
Primary side against secondary side	4 kV AC / 1 min acc. to EN 60950-1
Primary side / secondary side against functional earth	1,5 kV AC / 1 min acc. to EN 60950-1
EM compatibility	
Noise immunity acc. to	EN 61000-6-2, EN 61000-4-2,3,4,5,6,8,11
Noise radiation acc. to	61000-6-4, EN 55011 (Class B), EN 55022 (Class B)
Mains back coupling acc. to	EN 61000-3-2,3
Ambient conditions	
Operating ambient temperature	-20 ... 70 °C (see chart output power)
Operating ambient temperature	-40 ... 85 °C
Relative humidity	20 ... 90 % non condensing
Mechanical data	
Terminals	pluggable
Conductor cross section rigid or flexible	
without wire sleeves	0,2 … 2,5 mm²
With wire sleeves	0,25 … 2,5 mm²
Protection class	IP 20
Dimensions (H x W x D) [mm]	approx. 120 x 53 x 83
Weight	500 g
Assembly	on DIN rail TS35 acc. to EN60715:2001-09

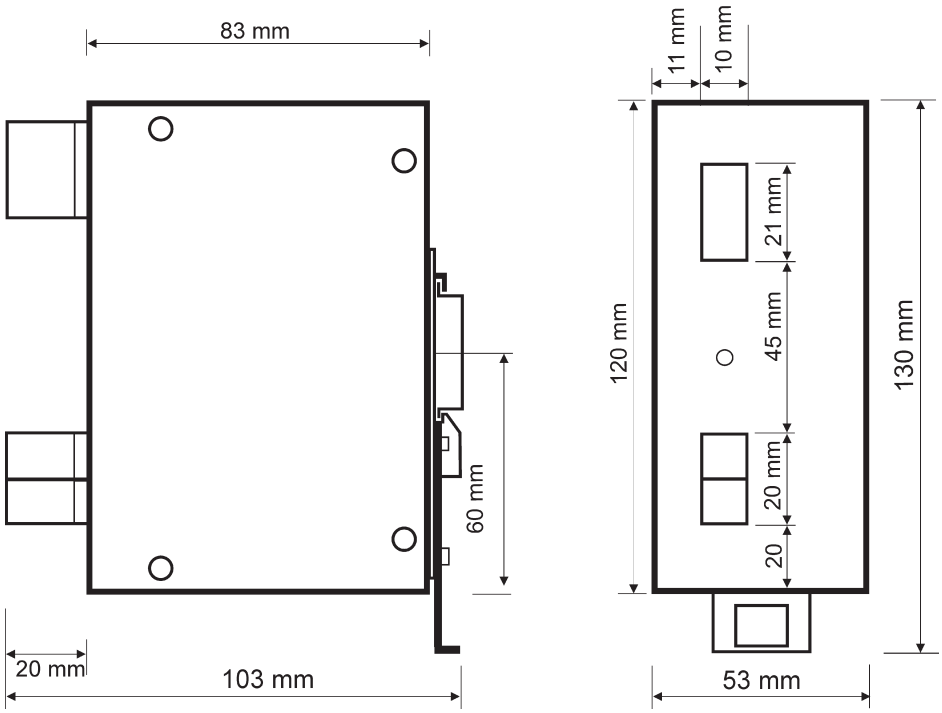
To guarantee a sufficient cooling of the devices please consider the following notes:

- Mount the devices only in vertical position
- Do not close or cover vents
  Keep distance of 20 mm to the vents

Terminal assignment



Dimensional drawing



Dimensions in mm
Subject to technical changes

Contact

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