

Switch mode DC power supply SNT50

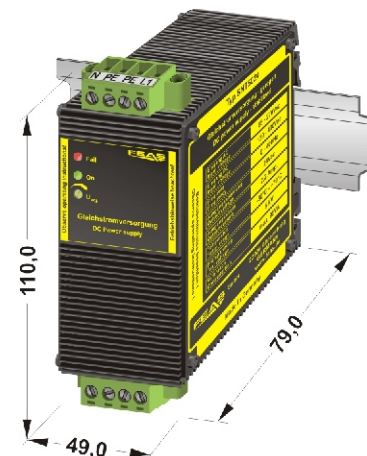


CE - compliant

- Output separated according to VDE0551
- Extra low safety potential PELV (EN 60204), SELV (EN 60950)
- Overload- and open-circuit protected, short circuit proof
- Parallel connection possible
- Reverse voltage protection at the output
- Suitable for the tropics - Epoxy resin casted
- Operating status shown by LED
- Safety acc. to VDE, EN, UL and CSA

Technical data

Input data	
Input voltage AC	85 - 270 V _{AC} (0-400 Hz)
Input voltage DC	120 - 400 V _{DC}
Input current at nominal load	at 115 V _{AC} max. 0,5 A / at 230 V _{AC} max. 0,25 A
Input current peak	< 8,2 A at 270 V _{AC}
Protective circuit	Transient voltage suppressor varistor
Hold-up time	20 ms typical
Output data	
Output voltage U _{nominal}	see table as below
Output current I _{nominal}	see table as below
Current limiting	approx. 1,2 x I _N
Residual ripple (20MHz)	< 25 mV _{pp}
Control data	
Control deviation load	< 200 mV with load variation 10.....90%
Control deviation supply	< 10 mV with supply variation ±10%
Control time	< 10 ms with load variation 10.....90%
Operating data	
Duty circle	100%
Operating temperature range	-30°C to +70°C
Derating	from 40°C
Storage temperature range	-30°C to +105°C
Cooling	selfcooling recommended respective distance 15 mm each
Safety devices	
Input fuse	at 115V _{AC} 2,0 A delayed / at 230V _{AC} 1,0 A delayed
Output fuse	not necessary, short circuit proof
Overload protection	integrated into device
MTBF	>380.000 h
Safety data	
Test voltage transformer	5 kV _{AC} according to VDE 0551
High voltage resistance	primary- / secondary circuit 3,75 kV _{AC} acc. to VDE
Degree of EMI suppression	according to VDE 0871B, EN 55022/B
Protection class	class 1, with PE connection (EN 60950)
Extra low safety potential	PELV (EN60204), SELV (EN 60950)
Ambient humidity	95% relative humidity, yearly average dewing allowed for use in tropical atmosphere
Protection class enclosure	IP 65
Protection class terminals	IP 20 (BGV A3)
Vibration proof	>30g at 33Hz in X,Y and Z, acc. to IEC 60068-2-27
Applied design specifications	
according to VDE	VDE 0100,0110,0113,0140-1,0551,0160/W2,0806
IEC	IEC 60950,IEC61000-6-1-2-3-4,IEC60068-2-3, IEC 60068-2-11-52,IEC 60529,IEC 380
EN	EN60950,EN61140,EN61000-6-1,EN61000-6-2, EN61000-6-3,EN61000-6-4,EN55022, EN55011, EN45501, EN50021, EN50204, EN60204, EN60529,EN61000-4-2-3-4-5-6-8-11, EN60068-1, EN60068-2-1-2-3-6-27-30 EN61558-2-17,EN50178
CSA / UL	CSA-C 22.2 / UL60950, UL508, UL1950
Mechanical data	
Mounting	On rails acc. to DIN 46277



Type	SNT5012	SNT5024
Order number	58312	58324
Nominal output voltage	12 V _{DC}	24 V _{DC}
Range of adjustment	10,0 - 15,5 V _{DC}	22,5 - 30,0 V _{DC}
Nominal output current	4,0 A	2,2 A
Power	48 Watt	52,8 Watt
Efficiency	86%	89%
Dimensions (W x H x D)	49x110x79	49x110x79
Weight	approx. 0,75 kg	approx. 0,75 kg

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