

Switch mode power supply type GSNT90

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. 1,7 A / at 230 V _{AC} max. 0,85 A
Input current peak	< 18 A at 270 V _{AC}
Protective circuit	Transient voltage suppressor varistor
Hold-up time	20ms typ.
Output data	
Output voltage U _{nominal}	see table as below
Output current I _{nominal}	see table as below
Current limiting	1,5 x I _n
Residual ripple (20MHz)	< 50 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	-40°C to +70°C
Derating	from 40°C
Storage temperature range	-40°C to +105°C
Cooling	selfcooling recommended respective distance 15 mm each
Safety devices	
Input fuse	at 115V _{AC} 3,15 A delayed / at 230V _{AC} 1,6 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	100% relative humidity, yearly average dewing allowed for use in tropical atmosphere
Protection class enclosure	IP 68
Protection class terminals	-
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, EN61000-3-3,EN50204, EN60204, EN60529,EN61000-4-2-3-4-5-6-8-11, EN60068-1, EN60068-2-27
CSA / UL	CSA-C 22.2 / UL60950, UL508, UL1950
Mechanical data	
Mounting	Wall mounting with screws 4mm
Dimensions W x H x D	175mm x 80mm x 58mm
Weight	approx. 1,20 kg

CE - compliant

- Enclosure fullfills protective class IP68
- 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

Type	GSNT9012	GSNT9024	GSNT9048
Order number	586612	586624	586648
Nominal output Voltage	12 V _{DC}	24 V _{DC}	48 V _{DC}
Range of adjustment	11,0 - 16,0 V _{DC}	22,5 - 30,0 V _{DC}	45,0 - 60,0 V _{DC}
Nominal output current	8,0 A	5,0 A	2,5 A
Power	96 Watt	120 Watt	120 Watt
Efficiency	85%	88%	89%
Dimensions (W x H x D)	175x80x58	175x80x58	175x80x58
Weight	approx. 1,20 kg	approx. 1,20 kg	approx. 1,20 kg



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