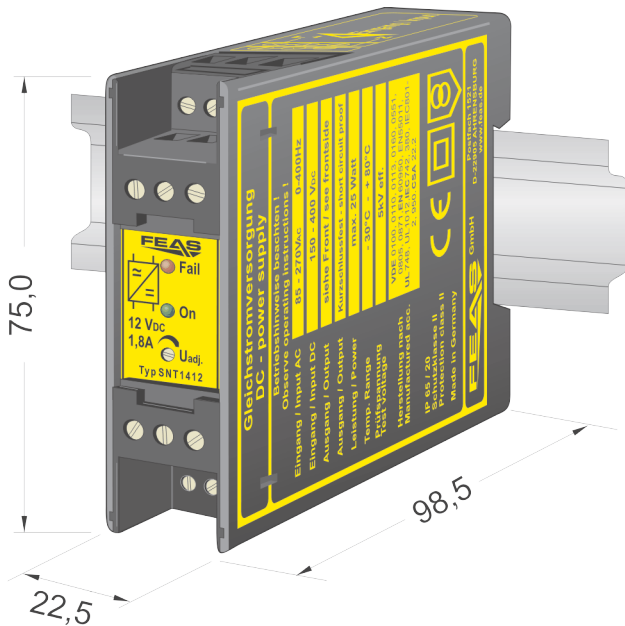


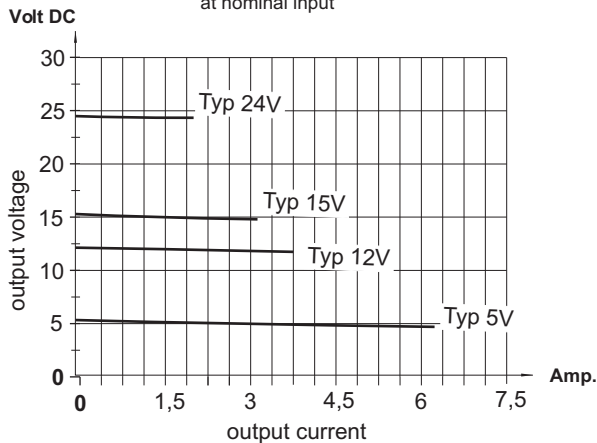
# Data sheet

## Switch mode power supply: SNT1412

### Technical data



**Load current diagram**  
at nominal input



#### Products of the series:

Type	SNT1405	SNT1415	SNT1424
Order number	586705	586715	586724
Output voltage	5VDC	15VDC	24VDC
Range of adjustment output voltage	4.7 - 5.3V <sub>DC</sub>	10.5 - 17.5V <sub>DC</sub>	22.5 - 30.0V <sub>DC</sub>
Output current	3.0A	1.5A	1.0A

General data	
Type	SNT1412
FEAS Order number	586712
Product description	Switch mode power supply
Product function	DC power supply
Input data	
AC input voltage	85 - 270V <sub>AC</sub> (0-400Hz)
DC input voltage	120 - 400V <sub>DC</sub>
Input current at nominal load	at 115V <sub>AC</sub> max. 0.3A / at 230V <sub>AC</sub> max. 0.15A
Input current peak	< 8.2 A at 270V <sub>AC</sub>
Protective circuit	Transient voltage suppressor Varistor
Output data	
Output voltage U <sub>Nominal</sub>	12V <sub>DC</sub>
Range of adjustment	10.5 ..... 17.5V <sub>DC</sub>
Output current I <sub>Nominal</sub>	1.8A
Current limiting	2 x I <sub>Nominal</sub>
Power	21,6 Watt
Residual ripple (20MHz Bandwidth)	<50mV <sub>PP</sub>
Control data	
Control deviation (Load)	<200mV with load variation 10 ..... 90%
Control deviation (Supply)	<10mV with load variation ±10%
Control time	<10ms with load variation 10 ..... 90%
Operating data	
Duty circle	100%
Efficiency	approx. 78%
Parallel connection	Yes
Operating temperature range	-40°C to +80°C
Storage temperature range	-40°C to +105°C
Derating	from 50°C
Cooling	selfcooling recommended respective distance 15mm each
Installation altitude	unlimited
MTBF	> 380.000h
Safety devices	
Fuse for input	at 115V <sub>AC</sub> 0.6A delayed / at 230V <sub>AC</sub> 0.3A delayed
Fuse for output	not necessary - short circuit proof
Overload protection	integrated into device
Hold-up time	20 ms typ.
Safety data	
Test voltage transformer	5kV <sub>AC</sub> according to VDE0570
High voltage resistance	Input/Output 4,4kV <sub>AC</sub> according to VDE0806/IEC380
Degree of EMI suppression	according to VDE0871B, EN55022/B
Protection class	Protection class II
Extra low safety potential	PELV (EN60204), SELV (EN60950)
Ambient humidity	95% relative humidity, yearly average dewing allowed for use in tropical ambient
Protective class enclosure	IP65
Protective class terminals	IP20 (BGV A3)
Vibration proof	>30g at 33Hz in X, Y and Z acc. IEC68 and DIN41640
Status & Signal	
Status indicator	LED - Operating, LED - Operating fail
Signals	-
Interfaces	-
Applied construction regulations	
according to VDE	VDE0100, VDE0110, VDE0113, VDE0551, VDE0806
IEC	IEC60950-1, IEC61000-6-1-2-3-4, IEC60068-2-3, IEC60068-2-11-52, IEC60529
EN	EN60950, EN61140, EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN55022, EN55011, EN61000-3-2, EN61000-3-3, EN60204, EN60529, EN61000-4-2-3-4-5-6-8-11, EN60068-1, EN60668-2-1-2-3-6-27-30, EN61558-2-17, EN61010-1
CSA/UL	CSA-C 22.2 / UL60950, UL508, UL1950
Mechanical data	
Mounting	on Rails according to DIN 46277
Dimensions (W x H x D)	22,5mm x 75mm x 98,5mm
Weight	approx. 0.30kg



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