

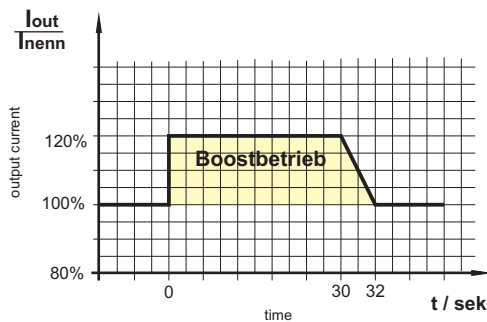
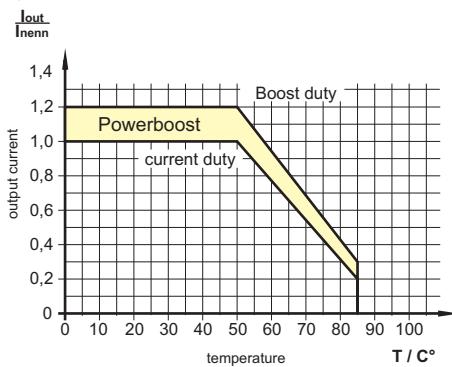
# Data sheet

## Switch mode power supply: SNT9048

### Technical data



CE - konform



#### Products of the series:

| Type           | SNT9012 | SNT9024 | SNT9048 |
|----------------|---------|---------|---------|
| Order number   | 586112  | 586124  | 586148  |
| Output voltage | 12VDC   | 24VDC   | 48VDC   |
| Output current | 8.0A    | 5.0A    | 2.5A    |

#### General data

|                     |                          |
|---------------------|--------------------------|
| Type                | SNT9048                  |
| FEAS Order number   | 586148                   |
| 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. 1.3A / at 230V <sub>AC</sub> max. 0.65A |
| Input current peak            | < 17 A at 270V <sub>AC</sub>                                       |
| Protective circuit            | Transient voltage suppressor Varistor                              |

#### Output data

|                                     |                                    |
|-------------------------------------|------------------------------------|
| Output voltage U <sub>Nominal</sub> | 48V <sub>DC</sub>                  |
| Range of adjustment                 | 45.0 ..... 60.0V <sub>DC</sub>     |
| Output current I <sub>Nominal</sub> | 2.5A                               |
| Current limiting                    | approx. 1.2 x I <sub>Nominal</sub> |
| Power                               | 120 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. 90%  |
| 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<br>recommended respective distance 15mm each |
| Installation altitude       | unlimited  |
| MTBF                        | > 380.000h   |

#### Safety devices

|                     |  |
|---------------------|--|
| Fuse for input      | at 115V <sub>AC</sub> 2.5A delayed / at 230V <sub>AC</sub> 1.25A 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 VDE0551  |
| 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 I with PE-Connection (EN60950-1)                                   |
| Extra low safety potential | PELV (EN60204), SELV (EN60950)  |
| Ambient humidity           | 95% relative humidity, yearly average<br>dewing allowed for use in tropical ambient |
| Protective class enclosure | IP65  |
| Protective class terminals | IP20 (BGV A3)   |
| Vibration proof            | >30g bei 33Hz in X, Y und Z<br>nach IEC68 und DIN41640                              |

#### Status & Signal

|                  |                                       |
|------------------|---------------------------------------|
| Status indicator | LED - Operating, LED - Operating fail |
| Signals          | -                                     |

#### Applied construction regulations

|                  |   |
|------------------|---|
| according to VDE | VDE0100, VDE0110, VDE0113, VDE0551, VDE0160/W2, VDE0806   |
| IEC              | IEC60950, IEC61000-6-1-2-3-4, IEC60068-2-3, IEC60068-2-11-52, IEC60529, IEC380  |
| EN               | EN60950-1, EN61140, EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN55022, EN55011, EN61000-3-2, EN61000-3-3, EN50204, EN60204, EN60529, EN61000-4-2-3-4-5-6-8-11, EN60068-1, EN6068-2-1-2-3-6-27-30, EN45501, EN50021, EN61558-2-17, EN50178 |
| CSA/UL           | CSA-C 22.2 / UI60950, UI508, UL1950   |

#### Mechanical data

|                        |                                 |
|------------------------|---------------------------------|
| Mounting               | on Rails according to DIN 46277 |
| Dimensions (W x H x D) | 64mm x 100mm x 120mm            |
| Weight                 | approx. 1.50kg                  |



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