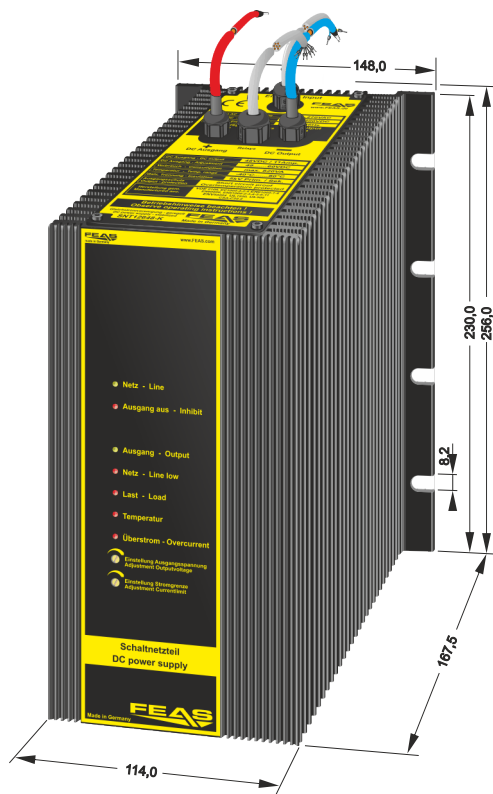


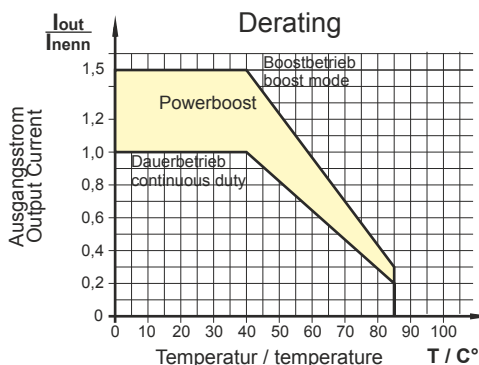
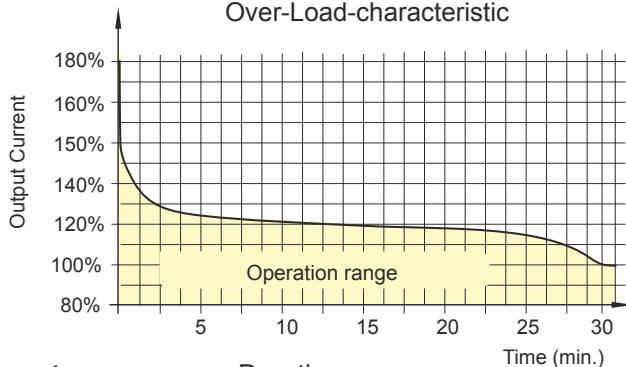
Data sheet

Switch mode power supply: SNT12648-K

Technical data



Over-Load-characteristic



Products of the series:

| Type | SNT12612-K | SNT12624-K | SNT12648-K |
|----------------|------------|------------|------------|
| Order number | 584433 | 584434 | 584435 |
| Output voltage | 12VDC | 24VDC | 48VDC |
| Output current | 40.0A | 22.0A | 11.0A |

General data

| | |
|---------------------|--------------------------|
| Type | SNT12648-K |
| FEAS Order number | 584435 |
| Product description | Switch mode power supply |
| Product function | DC power supply |

Input data

| | |
|-------------------------------|---|
| AC input voltage | 85 - 270V _{AC} (44-66Hz) |
| DC input voltage | 120 - 400V _{DC} |
| Input current at nominal load | at 115V _{AC} max. 5.0A / at 230V _{AC} max. 2.5A |
| Input current peak | < 10 A at 270V _{AC} |
| Protective circuit | Transient voltage suppressor Varistor Surge arrester |

Output data

| | |
|-------------------------------------|---|
| Output voltage U _{Nominal} | 48V _{DC} |
| Range of adjustment | 48.0 60.0V _{DC} |
| Output current I _{Nominal} | 11.0A |
| Current limiting/Fuse-Mode | adjustable 0.5 ... 1.5 x I _{Nominal} - 5.5 ... 16.5A |
| Power nominal / boost | 520 Watt / 780 Watt |
| Residual ripple (20MHz Bandwidth) | <50mV _{rms} |
| max. Power consumption in standby | <10 Watt |

Control data

| | |
|----------------------------|--|
| Control deviation (Load) | <2% with load variation 10 90% |
| Control deviation (Supply) | <0.1% with load variation ±10% |
| Control time | <10ms with load variation 10 90% |

Operating data

| | |
|-----------------------------|------------------|
| Duty circle | 100% |
| Efficiency | approx. 93% |
| Parallel connection | Yes |
| Operating temperature range | - 40°C to +80°C |
| Storage temperature range | - 40°C to +105°C |
| Derating | from 40°C |
| Cooling | selfcooling |
| Installation altitude | unlimited |
| MTBF | > 380.000h |

Safety devices

| | |
|---------------------|--|
| Fuse for input | at 115V _{AC} 10.0A delayed / at 230V _{AC} 5.0A 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 _{AC} according to VDE0570 |
| High voltage resistance | Input/Output 4.4kV _{AC} according to VDE0806/IEC380 |
| Degree of EMI suppression | according to VDE0871B, EN55022/B |
| Protection class | Protection class I with PE-Connection (EN60950) |
| 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 / IP69K* (*IP69K, if the potentiometer openings are reliably sealed with a 2-component system)

Vibration proof >100g at 33Hz in X, Y and Z according to IEC68 and DIN41640

Status & Signal

| | |
|------------------|--|
| Status indicator | LED - Line, Load, Temperature, Input, Output |
| Signals | Relay - Overtemperature, Overload/Power-Good |
| Interface | 0-10 V interface to adjust voltage (Dimmer) |

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 | EN60950-1, 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, EN6068-2, EN61558-2-17 |
| CSA/UL | CSA-C 22.2 / UI60950-1, UI508, UL1950 |

Mechanical data

| | |
|------------------------|---------------------------|
| Mounting | Wall mounting with screws |
| Dimensions (W x H x D) | 148mm x 256mm x 167,5mm |
| Weight | approx. 8.50kg |



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