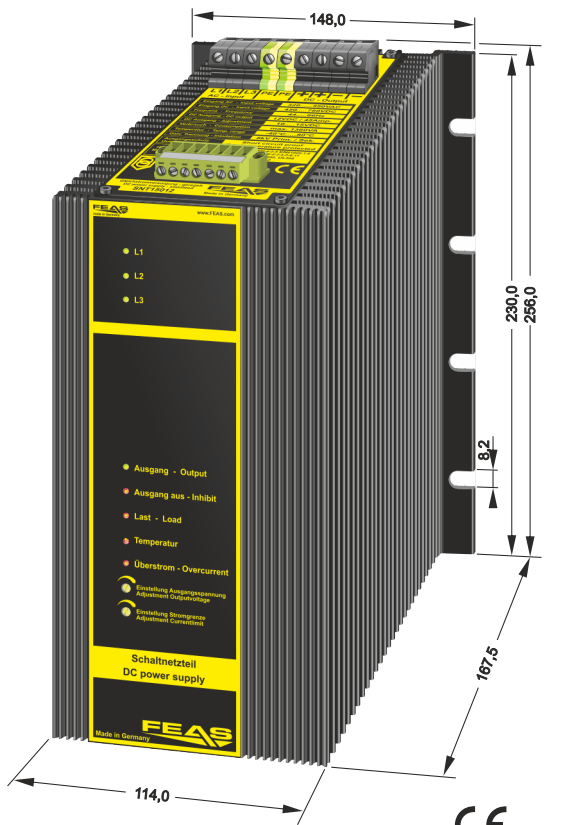


Data sheet

Switch mode power supply: SNT15012



Technical data

General data

| | |
|---------------------|--------------------------|
| Type | SNT15012 |
| FEAS Order number | 581912 |
| Product description | Switch mode power supply |
| Product function | DC power supply |

Input data

| | |
|---------------------------------|---|
| AC input voltage (3-phase-mode) | 320 - 550V _{AC} (44-66Hz) |
| AC input voltage (2-phase-mode) | 350 - 550V _{AC} (44-66Hz) |
| DC input voltage | 450 - 780V _{DC} |
| Input current at nominal load | at 400V _{AC} max. 1.75A |
| Input current peak | < 15 A at 400V _{AC} |
| Protective circuit | Transient voltage suppressor Varistor Surge arrester |

Output data

| | |
|-------------------------------------|--|
| Output voltage U _{Nominal} | 12V _{DC} |
| Range of adjustment | 10.0 15.0V _{DC} |
| Output current I _{Nominal} | 45.0A |
| Current limiting/Fuse-Mode | adjustable 0.5 ... 1.5 x I _{Nominal} - 22.5 ... 67.5A |
| Power nominal / max | 540 Watt / 810 Watt |
| Residual ripple (20MHz Bandwidth) | <50mV _{rms} |
| max. Power consumption in standby | <30 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. 92% |
| Parallel connection | Yes - U _{out} must be exactly adjusted |
| 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 400V _{AC} 3.0A 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 4kV _{AC} according to VDE0806/IEC380 L1, L2, L3 - PE = 3500V _{AC} additionally limited by internal protection circuit out - PE = 500V _{DC} |

| | |
|----------------------------|---|
| 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 | IP 65 |
| Protective class terminals | IP20 (BGV A3) |
| Vibration proof | >50g at 33Hz in X, Y and Z according to IEC68 and DIN41640 |

Status & Signal

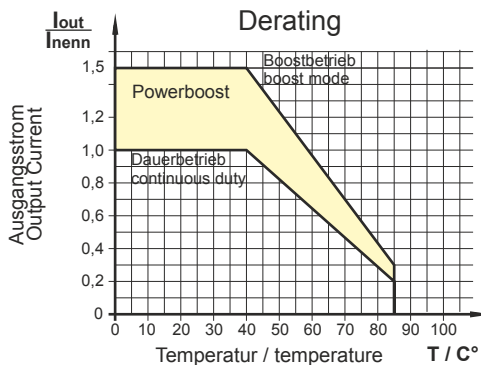
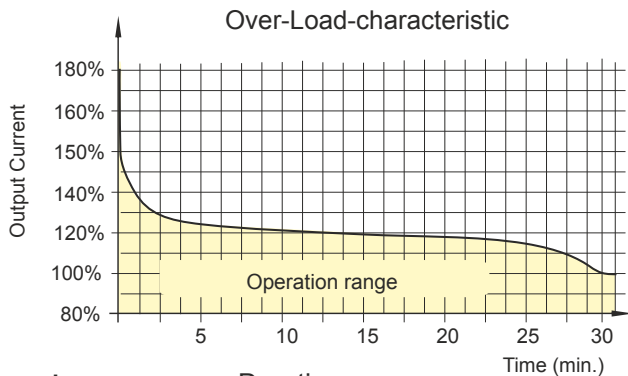
| | |
|-------------------------|--|
| Status indicator / LEDs | Phases, Output, Inhibit, Load, Temp., Overload |
| Signals / relays | Overtemperature, lost Phase, Overload, short circuit |
| Interface | 0-10 V interface to adjust voltage (Dimmer) |

Applied construction regulations

| | |
|------------------|---|
| according to VDE | VDE0100, VDE0110, VDE0113, VDE0551, VDE0806 |
| IEC | IEC62368-1, IEC61000-6-1,2,3,4, IEC60068-2-3, IEC60068-2-11-52, IEC60529 |
| EN | EN62368-1, 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. 9.9kg |



Products of the series:

| Type | SNT15012 | SNT15024 | SNT15048 |
|----------------|----------|----------|----------|
| Order number | 581912 | 581924 | 581948 |
| Output voltage | 12VDC | 24VDC | 48VDC |
| Output current | 45.0A | 25.0A | 15.0A |



Postfach 1521
D - 22905 Ahrensburg

Phone: +49 4102 42082
Fax: +49 4102 40930

E-mail: sales@feas.com
internet: www.feas.com