

# Product specification

## Switch mode power supply SNT10028



- Input range: 85 - 270 V<sub>AC</sub> or 120 - 400V<sub>DC</sub>
- Output range: 22.5 - 29.5 V<sub>DC</sub>
- Boostfunction** 120% max. 30s
- simply mounting on rail acc. to DIN46277 or wall mounting with screws
- Device protection, shutdown on overtemperature
- Operating status shown by LED
- Parallel operatin possible, polarity reversal protection, short circuit proof, overload and open circuit protected
- Vibration proof, suitable for the tropics - epoxy resin casted
- Output separated according to VDE0551
- Conforms to EMC and low voltage directive
- PFC according to IEC/EN 61000-3-2
- Safety according to VDE, EN, UL, CSA



### Application

The switch mode power supplies of the SNT100 series are powerful and robust devices to power sensitive loads in a hard industrial environment.

These features result from the modern construction with a good radio shielding and high reliability integrated in a functional and stable casing.

The short circuit proof output DC voltage of this type can be adjusted from 22.5 to 29.5 V. The output current can rise up to 120% of rating, therefore this power supply is suitable for loads requiring high starting current.

### Functional principle

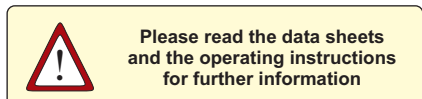
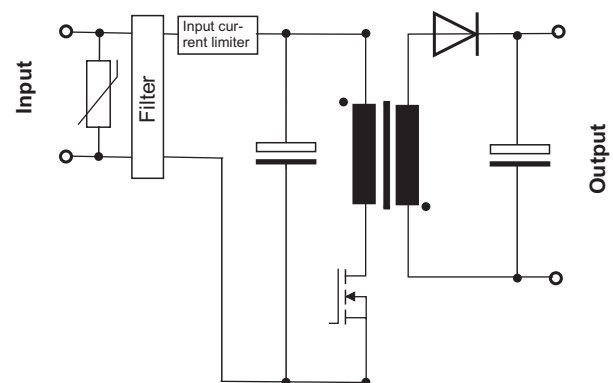
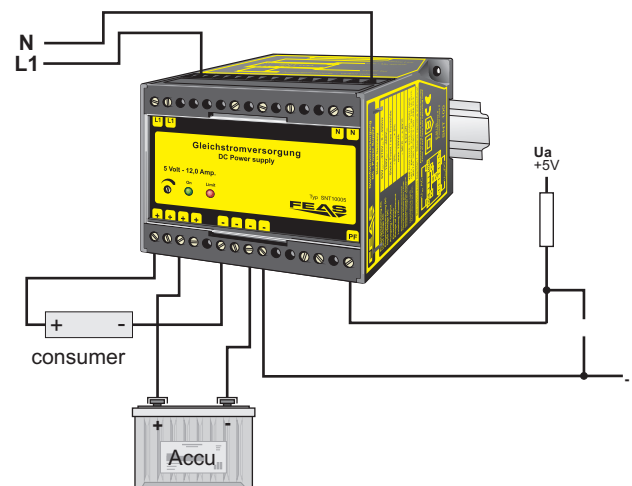
In the power supply SNT10028 a flyback converter operates to transform the energy in two steps. During the conducting phase the diode is blocking, the inductor is energized and a magnetic field establishes.

There is no electrical transmission; the consumer load is supplied with energy from the capacitor. When the switching transistor opens, the blocking phase begins. The current in the inductor cannot change immediately, discharges through the diode and a negative voltage establishes at the inductor.

Now operating like a power source the inductor reloads the capacitor and supplies the consumer with energy. The energy flows from the inductor into the capacitor and the consumer and through the conducting diode back to the inductor.

### Design

Completely embedded with resin in an aluminium housing for mounting on a rail or mounting on wall with screws.



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