Product specification

Switch mode power supply **SNT15024**

CE - konform

- ☐ **Input range: 320 - 550 V_{AC} or 450 - 780V_{DC}**
- ☐ **Output range: 23.0 - 30.0 V_{DC}**
- ☐ **Power:** max. **900 W**
- ☐ **Boostfunction** max. **150%** **140%** up to **1min** **125%** up to **5min**
- ☐ **Fuse-Mode** adjustable: permanent switch-off when the current limit is exceeded
- ☐ **Standby-Function** Output can be switched of
- ☐ **Comprehensive microprocessor-controlled monitoring management with LED display**

LED Display
- phase monitoring L1, L2, L3
- load switched on / off
- standby active
- load range (nominal load, overload, I_{out}>current limit)
- temperature range (OK, critical, too high)
- short-circuit

Signalling relay
- phase loss, overload, short-circuit, emergency stop, fuse mode, standby
- overtemperature

- ☐ **Output voltage adjustment via integrated 0-10V interface (Dimmer)**
- ☐ **Short circuit proof, overload and open ciruit protected**
- ☐ **Parallel operation possible**
- ☐ **Vibration proof, suitable for the tropics - epoxy resin casted**
- ☐ **Conforms to EMC and low voltage directive**
- ☐ **Output separated according to VDE0570**
- ☐ **PFC according to IEC/EN 61000-3-2**
- ☐ **Safety according to VDE, EN, UL, CSA**

Application

The switch-mode power supplies of the SNT150 series are powerful and robust devices and they are able to provide sensitive loads in a hard industrial environment with proper regulated voltage.

These features result of a modern construction with a good radio interference protection and high efficiency, integrated in a functional and stable housing fully potted with resin. The short circuit proof output DC voltage of this type can be adjusted from 23.0 to 30.0 V.

The output voltage can be increased up to 150% of the nominal value for a long period, which makes this power supply optimal suited for loads requiring high starting currents. The adjustable current limit of the “Fuse-Mode” guarantees an optimal protection of the connected load.

Functional principle

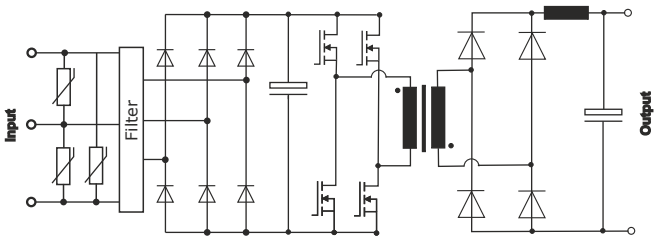
The series SNT150 is designed as a full-bridge push-pull converter. This type of converter consists in principle two forward converters, which are connected in parallel.

Before the semiconductor-switches alternately being connecting to primary windings of the transformer, a bridge-rectifier rectify the input AC-voltage into a pulsing DC-voltage. Due to this circuit design the transformer core is used in bipolar operation, in order to double the magnetic flux of the core. Compared with a flyback or a forward converter much more power can be transformed with the same core design.

Even during great load fluctuations the push-pull converter generates a smoothed stable output voltage.

Design

Completely embedded with resin in aluminium housing for mounting on wall.



Please read the data sheets and the operating instructions for further information

FEAS

Postfach 1521
D - 22905 Ahrensburg

Phone: +49 4102 42082
Telefax: +49 4102 40930

E-Mail : sales@feas.com
Internet: www.feas.com

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