

Product specification

Switch mode power supply SNT13048



- Input range: 85 - 270 V_{AC} or 120 - 400V_{DC}
- Output range: 48.0 - 60.0 V_{DC}
- Power: max. 1080 W
- Boostfunction 150% up to 10s
120% up to 30s
- Fuse-Mode selectable between safe, permanent shutdown on overload or current-limit
- Standby-Function Output can be switched off
- Comprehensive microprocessor-controlled monitoring management with LED display
 - Input and output voltage deviation
 - Standby and Current-Limiting
 - Input voltage control
 - Load usage (nominal, boost, overload)
 - Temperature-range
- Comprehensive microprocessor-controlled monitoring management with relay contact
 - Overload and PowerGood
 - Overtemperature
- Output voltage adjustment via integrated 0-10V interface
- Short circuit proof, overload and open circuit protected
- Parallel operation possible
- Vibration proof, suitable for the tropics - epoxy resin casted
- Conforms to EMC and low voltage directive
- Output separated according to VDE0551
- PFC according to IEC/EN 61000-3-2
- Safety according to VDE, EN, UL, CSA

Application

The switch-mode power supplies of the SNT130 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 48.0 to 60.0 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 Power Supplies SNT130 work on the principle of the resonant half-bridge forward converter. Use of the current zero passage switching power semiconductor operates this power supply expressed efficiently.

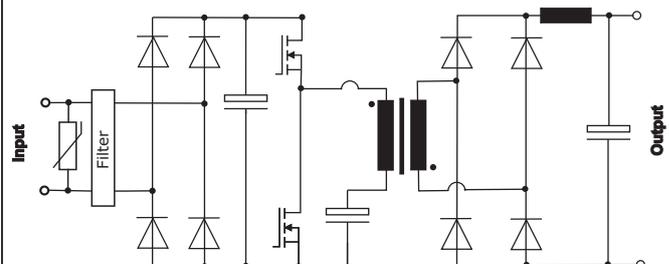
Another great advantage of this topology is that the "soft" switching have a positive influence on the Emissions (EMI) effect. The dynamic regulatory is able, even with large load fluctuations, the output voltage stable.

The integrated power-factor pre-regulation guarantees a very good power factor, the device makes it resistant to variations in input voltage and make the wide input voltage range possible.

The adjustable "Fuse mode" - fuse protects the load circuit electronically with an optimal release characteristics.

Design

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



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

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