

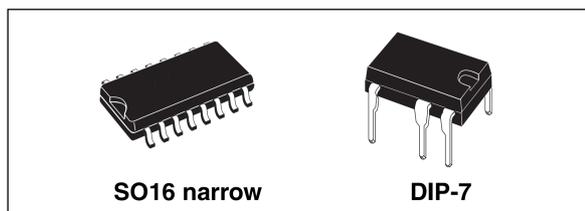
## Off-line high voltage converters

### Features

- 800 V avalanche rugged power section
- PWM operation with frequency jittering for low EMI
- Operating frequency:
  - 60 kHz for L type
  - 115 kHz for H type
- Standby power < 50 mW at 265 Vac
- Limiting current with adjustable set point
- Adjustable and accurate overvoltage protection
- On-board soft-start
- Safe auto-restart after a fault condition
- Hysteretic thermal shutdown

### Application

- Auxiliary power supply for consumer and home equipments
- ATX auxiliary power supply
- Low / medium power AC-DC adapters
- SMPS for set-top boxes, DVD players and recorders, white goods

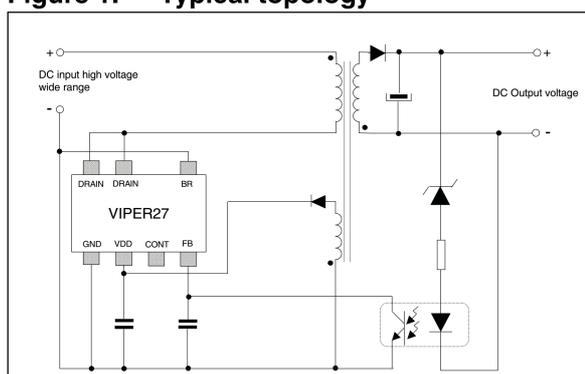


### Description

The device is an off-line converter with an 800 V rugged power section, a PWM control, two levels of over-current protection, overvoltage and overload protections, hysteretic thermal protection, soft-start and safe auto-restart after any fault condition removal. Burst mode operation and device very low consumption help to meet the standby energy saving regulations.

Advance frequency jittering reduces EMI filter cost. Brown-out function protects the switch mode power supply when the rectified input voltage level is below the normal minimum level specified for the system. The high voltage start-up circuit is embedded in the device.

**Figure 1. Typical topology**



**Table 1. Device summary**

Order codes	Package	Packaging
VIPER27LN / VIPER27HN	DIP-7	Tube
VIPER27HD / VIPER27LD	SO16 narrow	
VIPER27HDTR / VIPER27LDTR		