

## 4 W, 12 V output, isolated flyback converter using VIPer™ Plus - VIPER06HS

Data brief



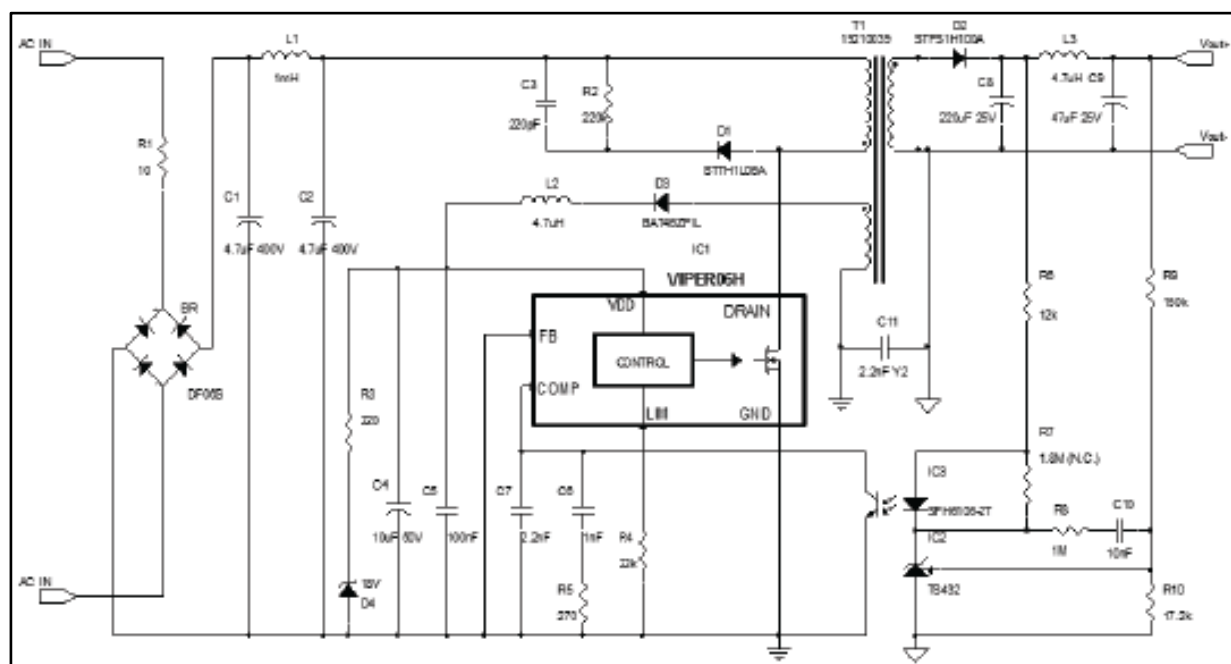
### Description

The STEVAL-ISA135V1 is a 12 V - 4 W power supply in isolated flyback topology based on the VIPer06HS, a new offline high voltage converter having, as main features: 800 V avalanche rugged power section, PWM operation at 115 kHz with frequency jittering for lower EMI, cycle-by-cycle current limit with adjustable set point, on-board soft-start and safe auto-restart after a fault condition.

### Features

- AC main input voltage:  $V_{IN}$  85 V<sub>AC</sub> - 265 V<sub>AC</sub>
- Main frequency:  $f_L$  50 Hz - 60 Hz
- Output voltage:  $V_{OUT}$  12 V
- Max output current:  $I_{OUT}$  333 mA
- Precision of output regulation:  
 $\Delta V_{OUT\_LF} \pm 5 \%$
- High frequency output voltage ripple:  
 $\Delta V_{OUT\_HF}$  50 mV
- Min active mode efficiency:  $\eta_{AV}$  71 %
- Max ambient operating temperature:  
 $T_{AMB}$  60 °C
- Thermal shutdown with hysteresis
- Delayed overload protection
- Open loop failure protection (if auxiliary winding is used)
- RoHS compliant

**Figure 1: STEVAL-ISA135V1 circuit schematic**



## 2 Revision history

Table 1: Document revision history

Date	Version	Change
02-Oct-2013	1	Initial release.
08-May-2014	2	Title has been updated.

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