

## STEVAL-ISA135V1

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

Data brief



STEVAL-ISA135V1

### **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.

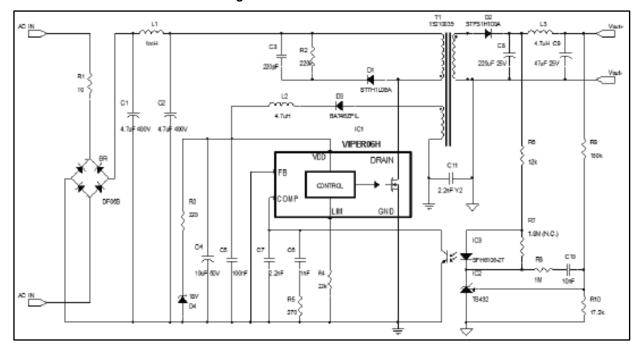
#### **Features**

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

Schematic diagram STEVAL-ISA135V1

## 1 Schematic diagram

Figure 1: STEVAL-ISA135V1 circuit schematic



STEVAL-ISA135V1 Revision history

## 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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