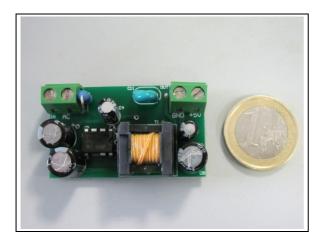


# STEVAL-ISA136V1

### 3W, 5V output, isolated flyback converter using VIPer<sup>™</sup> Plus -VIPER06HN

Data brief



### Features

- Universal input mains range: 85 265 V<sub>AC</sub> frequency: 50 - 60 Hz
- Output voltage: 5 V / 0.6 A
- Very compact size
- Stand-by mains consumption: < 30 mW at 230  $\rm V_{AC}$
- Min active mode efficiency η<sub>AV</sub>=66.89%
- EMI: according to EN55022-Class-B
- RoHS compliant

#### Description

The STEVAL-ISA136V1 evaluation board implements a 5 V / 0.6 A isolated flyback 3 W wide-range mains developed for general-purpose applications.

The core of the application is the VIPER06HN, a new off-line high voltage converter from the VIPer plus family.

The IC combines a high-performance low-voltage PWM controller chip and an 800 V, avalanche-rugged power MOSFET in the same package.

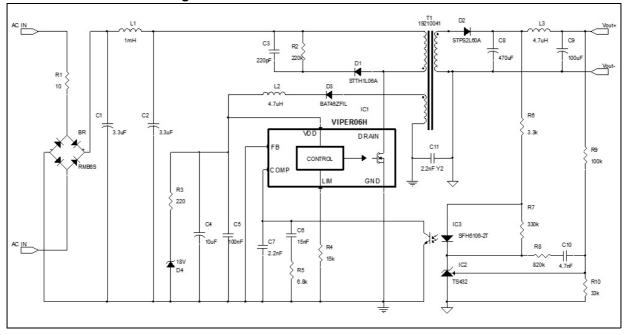
The main characteristics of the board are its small size, high efficiency and low standby consumption. Extremely low consumption under no-load conditions is ensured thanks to burst mode operation, which reduces the average switching frequency and minimizes all frequencyrelated losses.

The VIPER06HN operates at fixed frequency (115 kHz). Frequency jittering is implemented, helping it to meet electromagnetic disturbance standards. The device is equipped with protection features, such as delayed overload, open-loop failure and hysteretic thermal protection, which improve the reliability and safety of a design.

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For further information contact your local STMicroelectronics sales office.

### 1 Schematic diagram







## 2 Revision history

Date	Revision	Changes
19-Jul-2013	1	Initial release.
08-May-2014	2	Cover image, Figure 1 and title have been updated.

Table 1. Document revision history

