



# STEVAL-ISA096V1

## Auxiliary power supply in buck-boost topology based on the Viper06

Data brief

### Features

- Input voltage:  $V_{in}$ : 85 ~ 264 Vrms; f: 45 ~ 66 Hz
- Output voltage: -12 Vdc  $\pm$  10%, 150 mA
- Standby < 30 mW at 264 Vac
- Short-circuit: protected
- PCB type and size: FR4 single-side 35  $\mu$ m, 32 x 90 mm
- Isolation: isolated 4 kV/8 mm
- EMI: according to EN55022 class B
- RoHS compliant

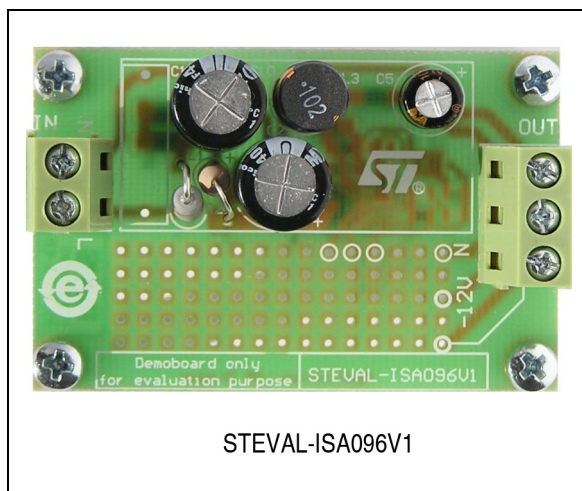
### Description

The STEVAL-ISA096V1 is a switched mode power supply (SMPS) demonstration board. This non-isolated SMPS is designed in a buck-boost topology and is capable of delivering up to 2 W of output over a wide input voltage range.

This board also offers the user the possibility of adapting the circuit to specific needs, thanks to an available free PCB area.

The SMPS generates 12 V of nominal output voltage.

The STEVAL-ISA096V1 demonstration board is based on the VIPer06, a monolithic converter that integrates an 800 V avalanche-rugged MOSFET and PWM controller in one package, offering a cost-effective and space-saving solution.



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**Figure 1. Schematic diagram**



## 2 Revision history

**Table 1. Document revision history**

| Date        | Revision | Changes          |
|-------------|----------|------------------|
| 18-Apr-2012 | 1        | Initial release. |

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На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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