

5 V, 0.85 A flyback converter using VIPer™ Plus – VIPer01

Data brief

**Description**

The STEVAL-ISA177V1 evaluation board implements a wide-range converter in flyback non isolated topology, delivering 0.85 A on a 5 V output for general purpose applications.

The core of the application is the new VIPer01 offline high voltage converter from the VIPerPlus range that intelligently integrates an 800 V rugged power MOSFET with PWM current-mode control.

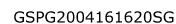
The main characteristics of the evaluation board are its single layer, small size with minimal BOM, high efficiency and low standby consumption.

Features

- Universal AC main input voltage range: 85V_{AC} to 265V_{AC}
- Output range: 5 V / 0.85 A
- Rated output power: 4.25 W
- Input power in standby @ 230 V_{AC}: < 9 mW
- Active mode efficiency: > 74%
- EMI: according to EN55022-Class-B
- RoHS compliant

1

Figure 1: STEVAL-ISA177V1 circuit schematic



2 Revision history

Table 1: Document revision history

| Date | Version | Changes |
|-------------|---------|---|
| 26-Apr-2016 | 1 | Initial release. |
| 02-Sep-2016 | 2 | Output range change in Section "Features" |

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