

12 V - 0.6 A flyback isolated converter using VIPer™ Plus – VIPer0P

Data brief



Features

- Universal AC main input voltage range: 85 to 265 V_{AC}
- Output range: 12 V - 0.6 A
- Rated output power: 7.2 W
- Input power in standby @ 230 V_{AC}: less than 18 mW
- Active mode efficiency: > 80%
- EMI: according to EN55022-Class-B
- RoHS compliant

Description

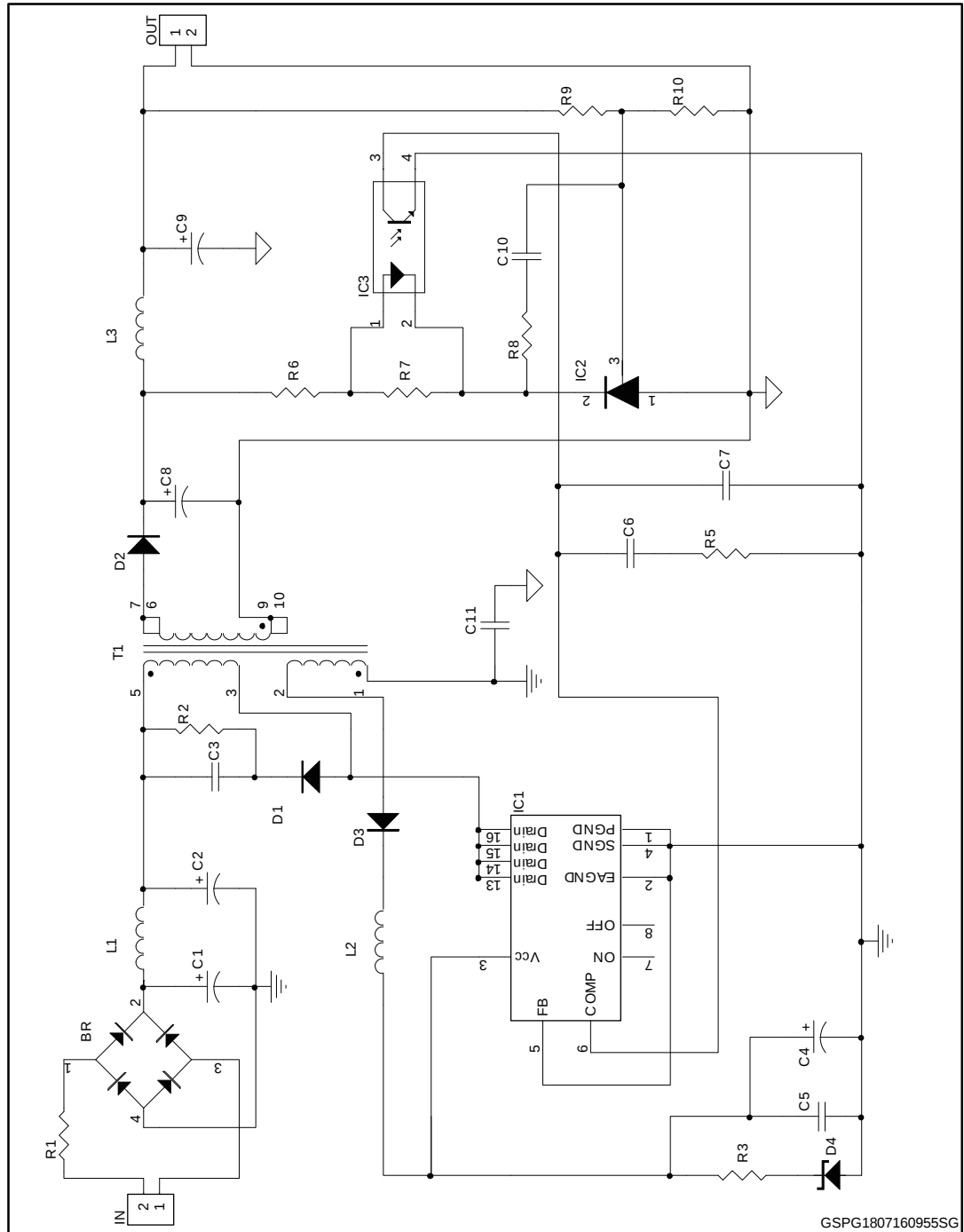
The STEVAL-ISA180V1 evaluation board implements a wide mains range flyback isolated converter (12 V - 0.6 A), developed for general purpose applications.

This high-voltage converter intelligently integrates an 800 V rugged power MOSFET with PWM current-mode control. The core of the application is the new VIPer0P off-line high voltage converter from VIPerPlus family with zero power features.

The evaluation board features a small size and minimal BOM, high efficiency, low standby consumption and high reliability due to these protections: pulse skip mode to avoid flux-runaway, delayed overload protection (OLP), max duty cycle counter, V_{CC} clamp and thermal shutdown.

1 Schematic diagram

Figure 1: STEVAL-ISA180V1 circuit schematic



2 Revision history

Table 1: Document revision history

Date	Version	Changes
21-Jul-2016	1	Initial release.

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