

15 V, 0.15 A buck converter using VIPer™ Plus – VIPer0P

Data brief



Description

The STEVAL-ISA179V1 evaluation board implements a wide mains range buck converter (15 V / 0.15 A), developed for general purpose applications.

The core of the application is the new VIPer0P off-line high voltage converter of the VIPerPlus family, featuring the Zero Power characteristic.

The device is a high-voltage converter that intelligently integrates an 800 V rugged power MOSFET with PWM current-mode control.

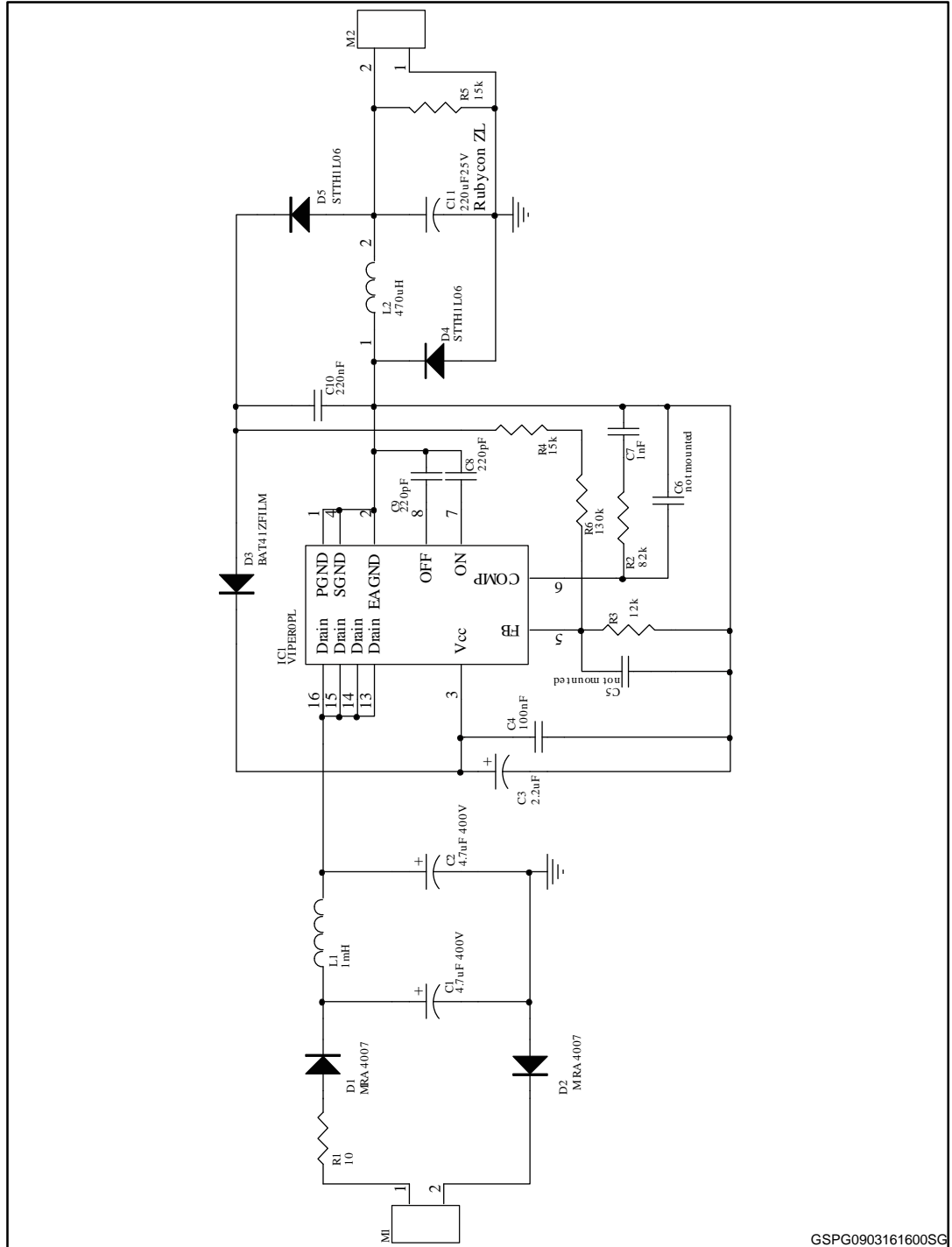
The evaluation board features a single layer design, small size, minimal BOM, high efficiency and low standby consumption.

Features

- Universal AC main input voltage range: 85 V_{AC} to 265 V_{AC}
- Output range: 15 V / 0.15 A
- Rated output power: 2.25 W
- Input power in standby @230 V_{AC}: less than 40 mW
- Active mode efficiency: greater than 77%
- EMI: EN55022-Class-B compliant
- RoHS compliant

1 Schematic diagram

Figure 1: STEVAL-ISA179V1 circuit schematic



GSPG0903161600SG

2 Revision history

Table 1: Document revision history

Date	Version	Changes
14-Mar-2016	1	Initial release.