



STEVAL-ISA023V1

Flyback AC-DC converter evaluation board based on the VIPer53-E
with 24 W positive output

Data Brief

Features

- Input voltage, V_{in} : from 90 to 265 V_{rms}
- Positive output voltage: 3.3 V, 5 V, 12 V
- Standby consumption: <1 W
- Total output power: 24 W
- EMI requirements: EN55022 Class B
- Safety: EN 60950

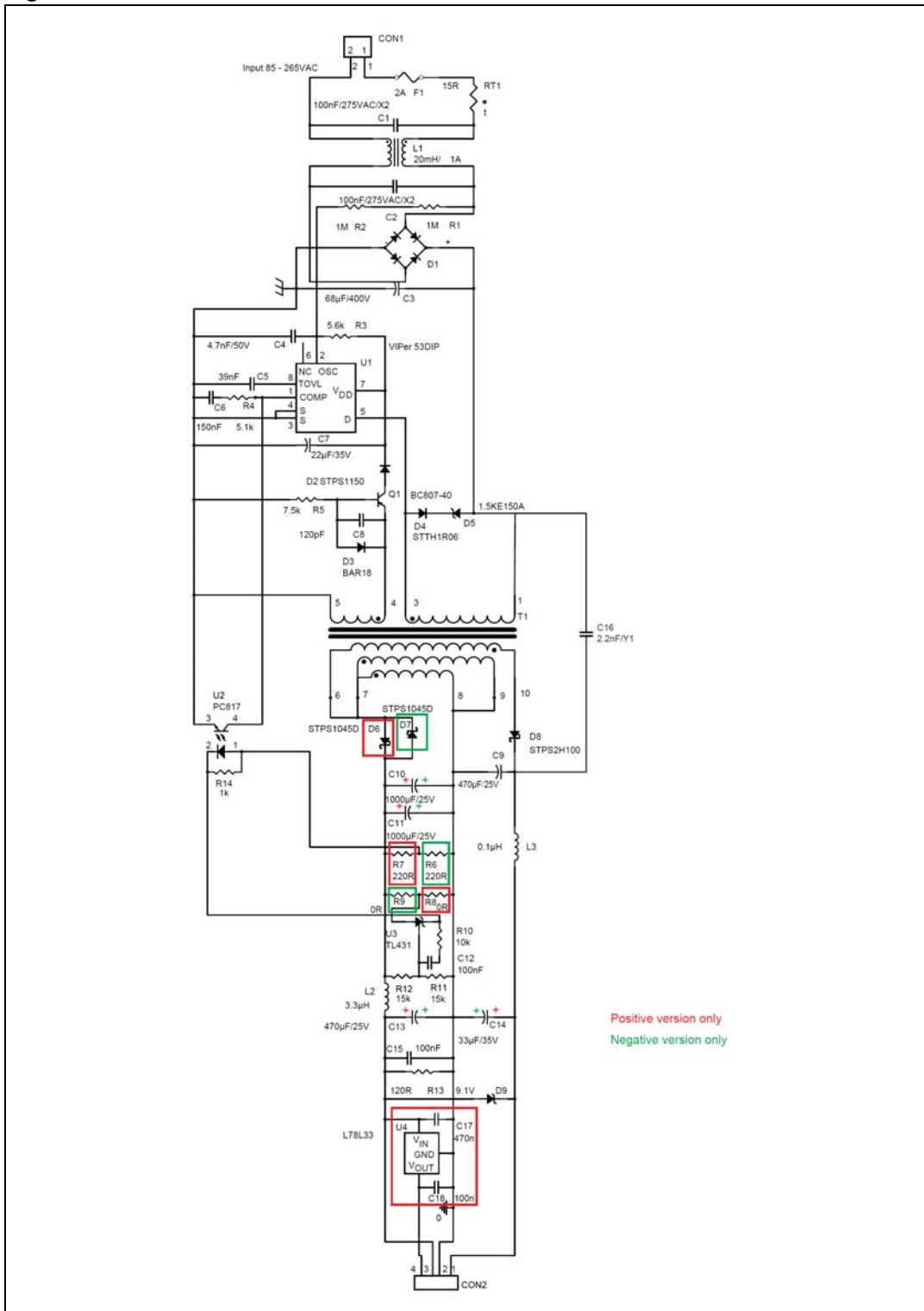
Description

This evaluation board represents a solution for a 25 W switch mode (SMPS) power supply dedicated to industrial or white goods applications. The board accepts a wide range of input voltages (90 to 265 V_{rms}) and delivers 3 positive output voltages. The switch mode power supply (SMPS) is based on the VIPer53-E. The VIPer53-E combines an enhanced current-mode PWM controller with a high-voltage MDmesh™ Power MOSFET in the same package. The main characteristics of the evaluation board are its high efficiency and low standby consumption. These, combined with the minimal component count and global low-cost approach, make this an ideal solution for powering industrial or consumer equipment, while also meeting worldwide consumption requirements.



1 Board schematic

Figure 1. Scheme



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
27-Aug-2007	1	Initial release.
03-Dec-2007	2	Content reworked to improve readability, no technical changes

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