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STEVAL-ISA081V1

12 V / 1 A SMPS wide range demonstration board based on the VIPER26

Data brief

Features

- V_{in} : 85 ~ 305 Vrms / f: 45 ~ 66 Hz
- V_{out1} : 12 VDC \pm 10 %, 1 A (at 3.3 V not loaded)
- V_{out2} : 3.3 VDC \pm 4 %, 100 mA
- Maximum total output current: 1 A
- Standby < 120 mW at 230 VAC
- Short-circuit: protected
- PCB type and size: FR4, single-side 35 μ m, 32 x 90 mm
- Isolation: isolated 4 kV / 8 mm
- EMI: according to EN55022 Class
- RoHS compliant



STEVAL-ISA081V1

Description

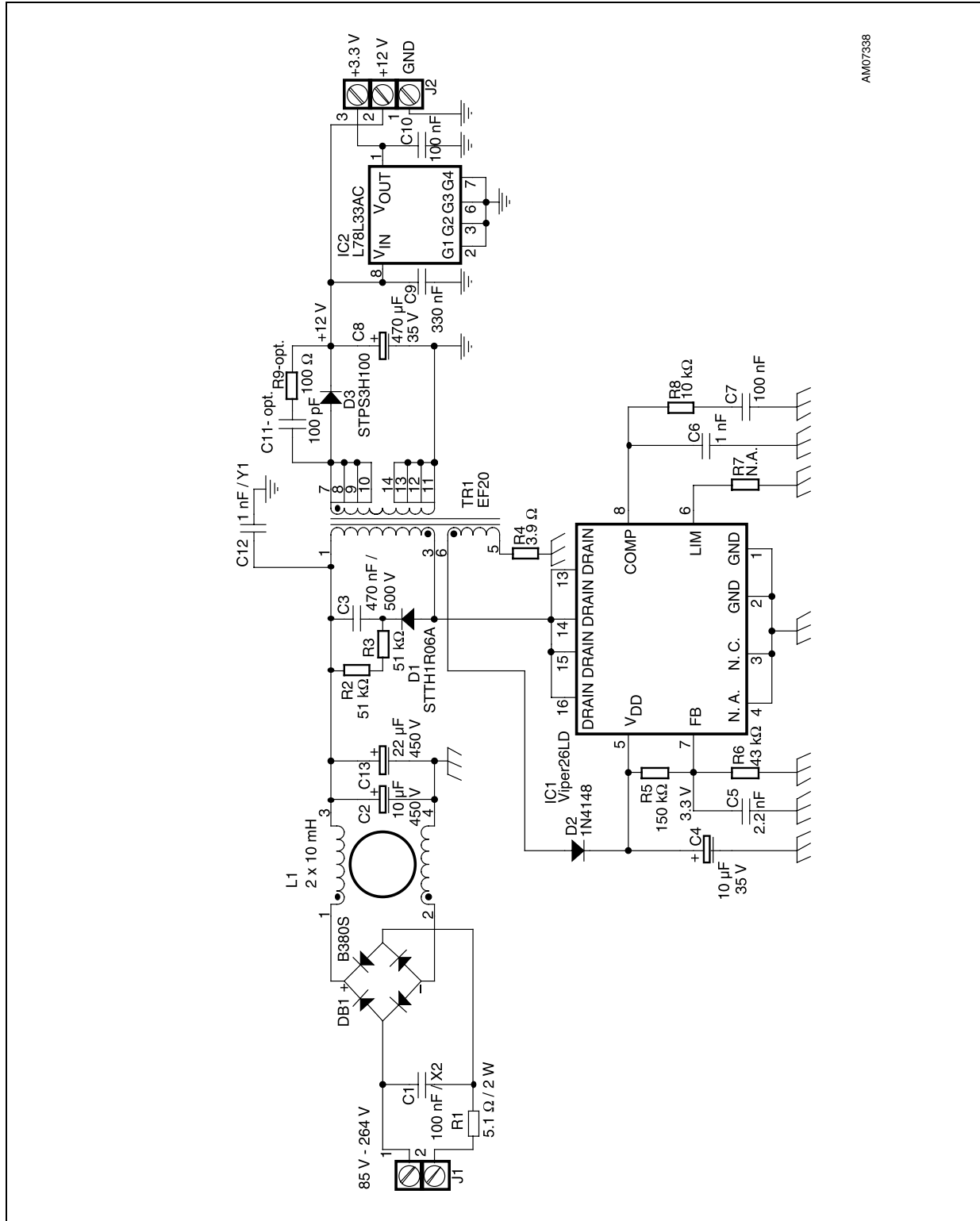
The STEVAL-ISA081V1 demonstration board is a switched mode power supply (SMPS) demonstration board and it is an isolated SMPS capable of delivering a 12 W output over a wide input voltage range.

It is designed for a mains application focusing on cost and size effective solutions.

The STEVAL-ISA081V1 SMPS generates 12 V nominal output voltage using primary regulation and it is based on the VIPER26 monolithic converter, integrating a high voltage MOSFET and PWM controller in one package.

1 Schematic diagram

Figure 1. Circuit schematic



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
05-Nov-2010	1	Initial release.

STEVAL-ISA081V1

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