



# 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  $\mu$ m, 32 x 90 mm
- Isolation: isolated 4 kV / 8 mm
- EMI: according to EN55022 Class
- RoHS compliant



## Description

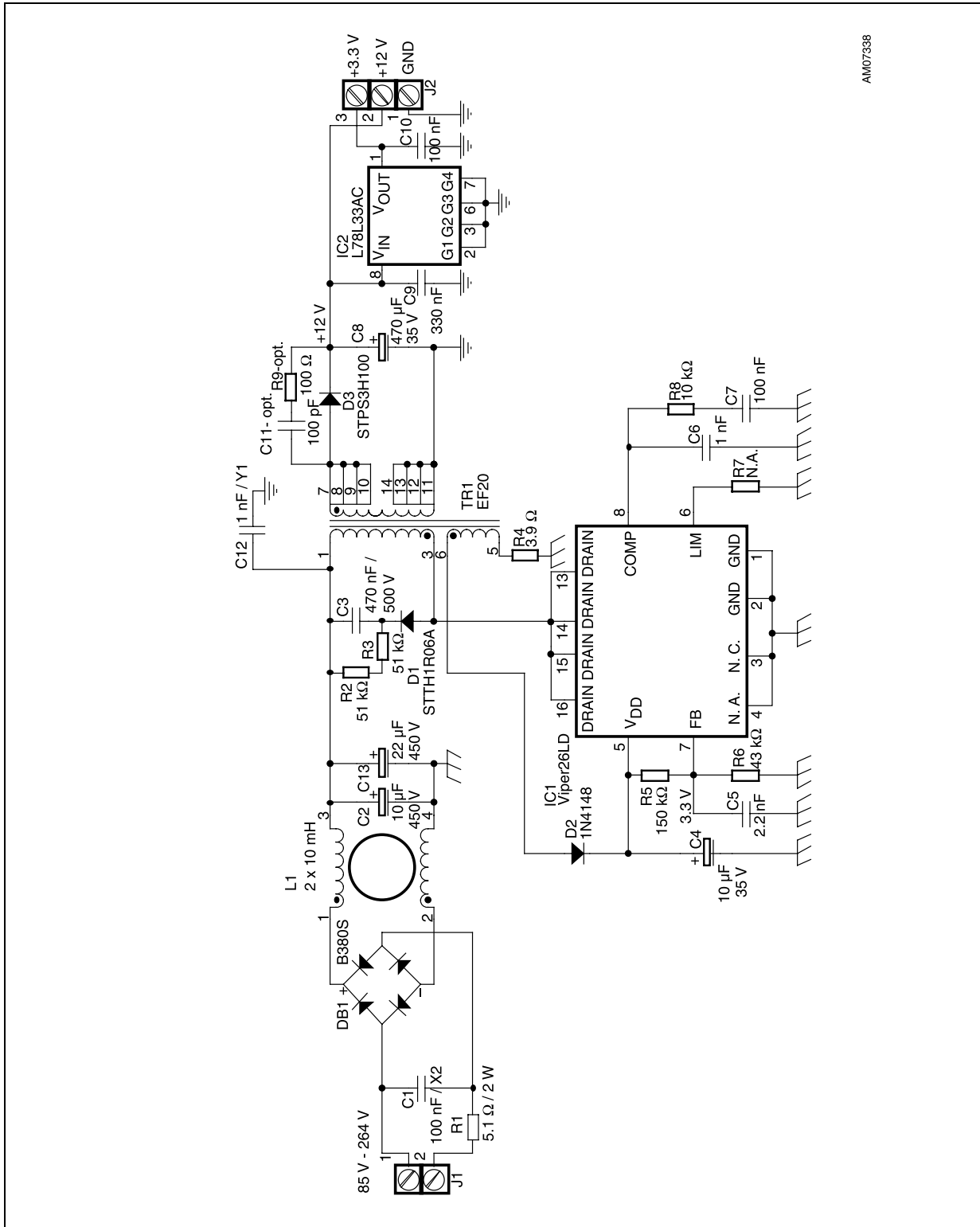
The STEVAL-ISA081V1 demonstration board is a switched mode power supply (SMPS) demonstration board and it is an isolated SMPS capable of delivering a 12 W output over a wide input voltage range.

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.