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# STEVAL-ISA081V1

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

**Data brief**

## Features

- Vin: 85 ~ 305 Vrms / f: 45 ~ 66 Hz
- $V_{out1}$: 12 VDC ± 10 %, 1 A (at 3.3 V not loaded)
- $V_{out2}$: 3.3 VDC ± 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 µm, 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.



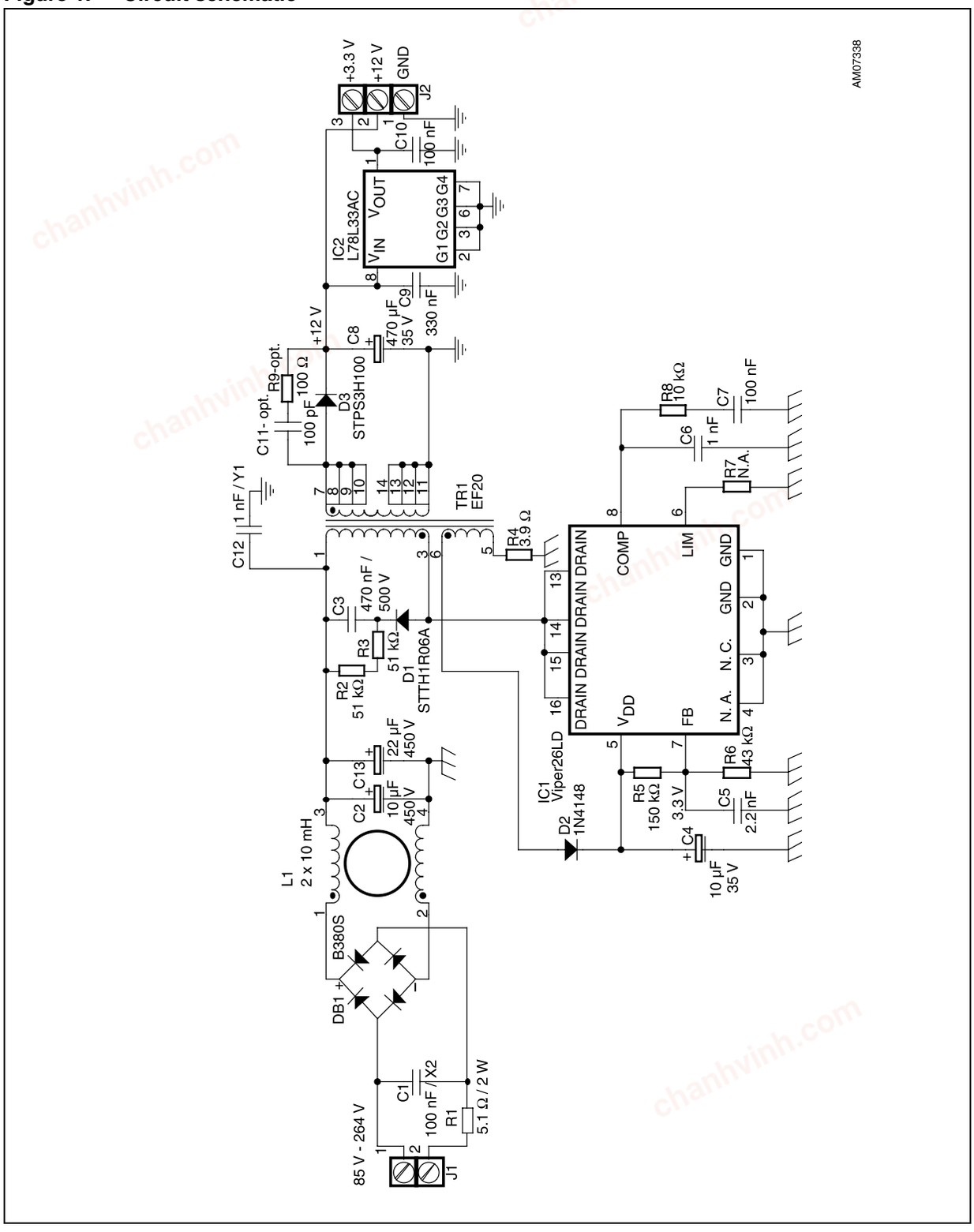
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# 1 Schematic diagram

**Figure 1. Circuit schematic**



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# 2 Revision history

**Table 1. Document revision history**

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

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