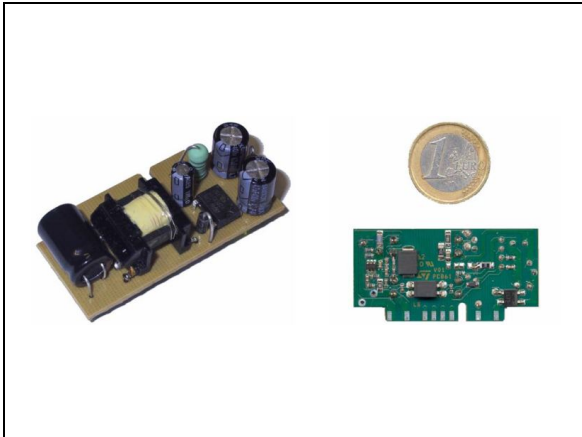


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**5 W low standby-consumption battery charger demonstration board  
based on the VIPER17HN**

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Data brief

**Description**

The STEVAL-ISA124V1 demonstration board is a 5 W SMPS for use as a travel battery charger for applications such as mobile phones, PDAs and electronic games.

The converter implements a flyback topology, which is ideal for low power, low cost isolated converters.

The purpose of the board is to demonstrate the performance of the VIPER17HN off-line high voltage converter.

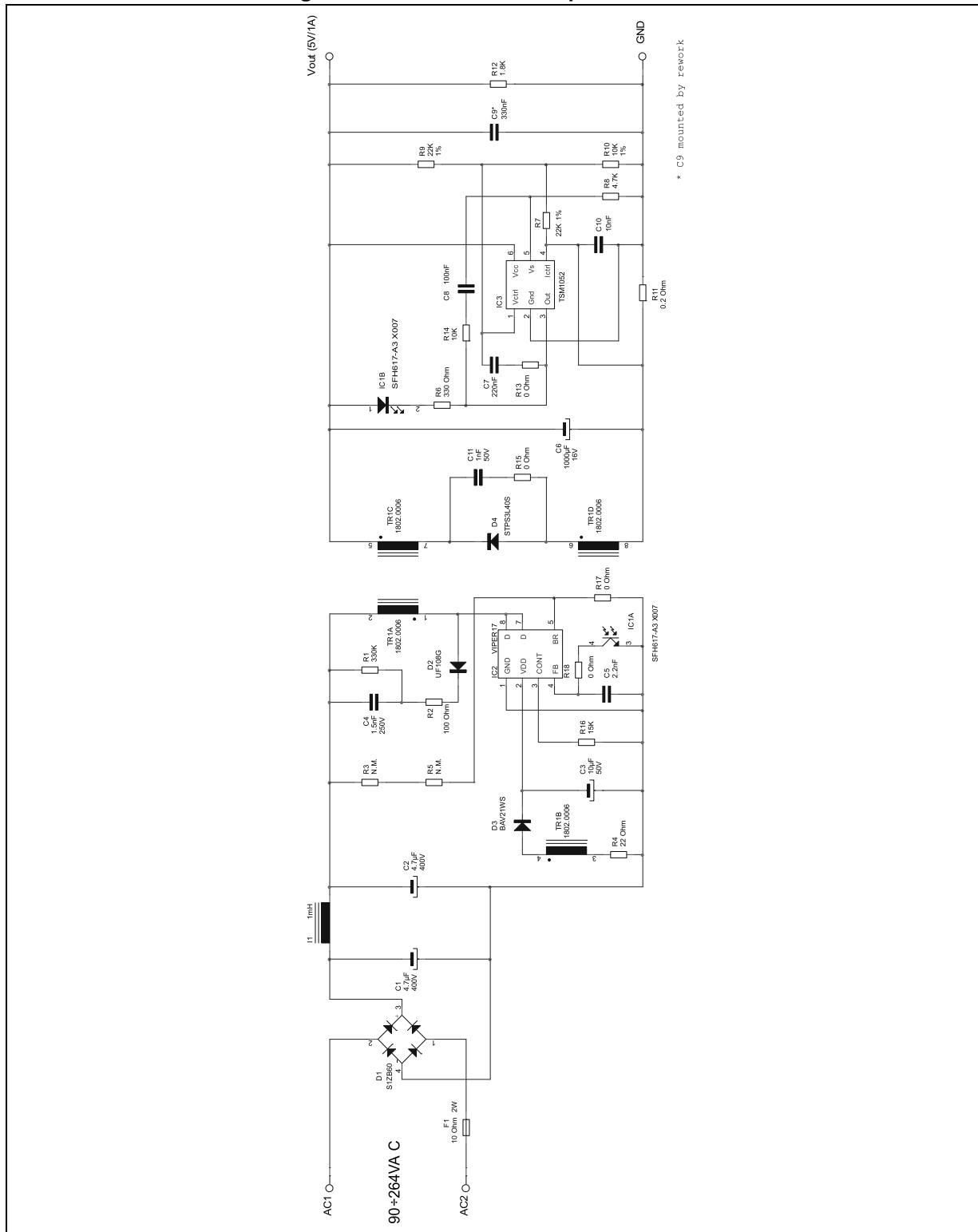
Thanks to its low consumption and other features, the device offers good electrical performance.

**Features**

- Input mains range ( $V_{IN}$ ): 90 - 264  $V_{RMS}$ , f: 45 - 66 Hz
- Output parameters: 5.1  $V_{DC} \pm 2\%$ , 1 A  $\pm 5\%$ , cable drop compensation (0.2 V/A)
- No-load consumption: input power below 100 mW at high mains
- Short-circuit protected with auto-restart at short removal
- PCB type and size: CEM-1, single side 35 mm, 53x26 mm
- Safety: EN60065 compliant
- EMI: conforms to EN55022 - class B standards
- RoHS compliant

# 1 Schematic diagram

Figure 1. STEVAL-ISA124V1 power section



## 2 Revision history

Table 1. Document revision history

Date	Revision	Changes
19-Jul-2013	1	Initial release.

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