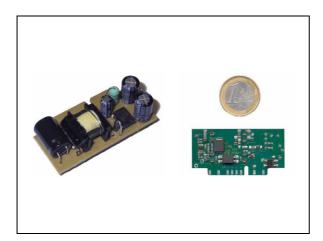


STEVAL-ISA124V1

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

Data brief



Features

- Input mains range (V_{IN}): 90 264 V_{RMS}, f: 45 -66 Hz
- Output parameters: 5.1 V_{DC} ± 2%, 1 A ± 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

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.

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For further information contact your local STMicroelectronics sales office.

1 Schematic diagram

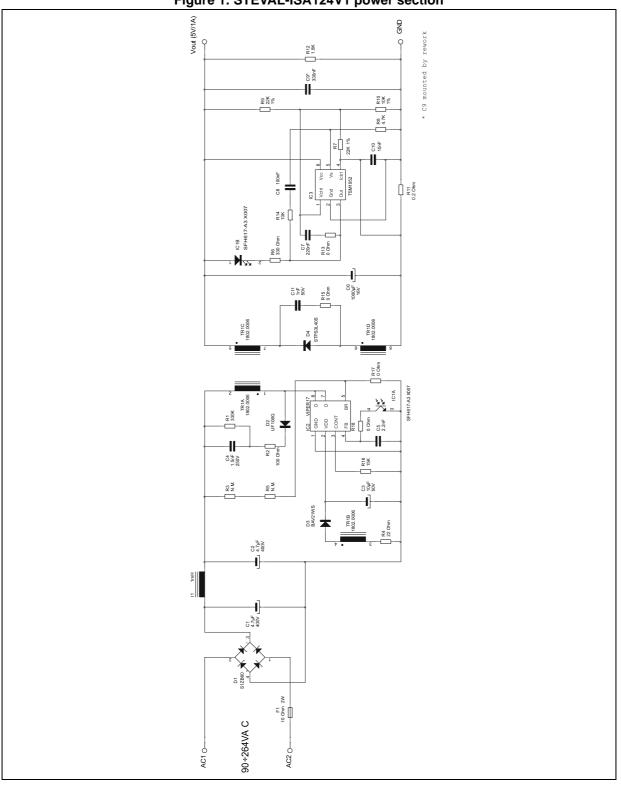


Figure 1. STEVAL-ISA124V1 power section

DocID024487 Rev 1

2 Revision history

| Table 1. Documer | t revision history |
|------------------|--------------------|
|------------------|--------------------|

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



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