



# STEVAL-ISA102V1

## 80 W high performance transition mode PFC demonstration board

Data brief

### Features

- Line voltage range: 88 to 265 VAC
- Minimum line frequency ( $f_L$ ): 47 Hz
- Regulated output voltage: 400 V
- Rated output power: 80 W
- Maximum  $2f_L$  output voltage ripple: 10 V pk-pk
- Hold-up time: 20 ms ( $V_{DROP}$  after hold-up time: 300 V)
- Minimum switching frequency: 35 kHz
- Minimum estimated efficiency: 92% ( $V_{IN} = 90 V_{AC}$ ,  $P_{OUT} = 80 W$ )
- Maximum ambient temperature: 50 °C
- PCB type and size: single-side, 35  $\mu$ m, CEM-1, 108 x 57 mm
- RoHS compliant



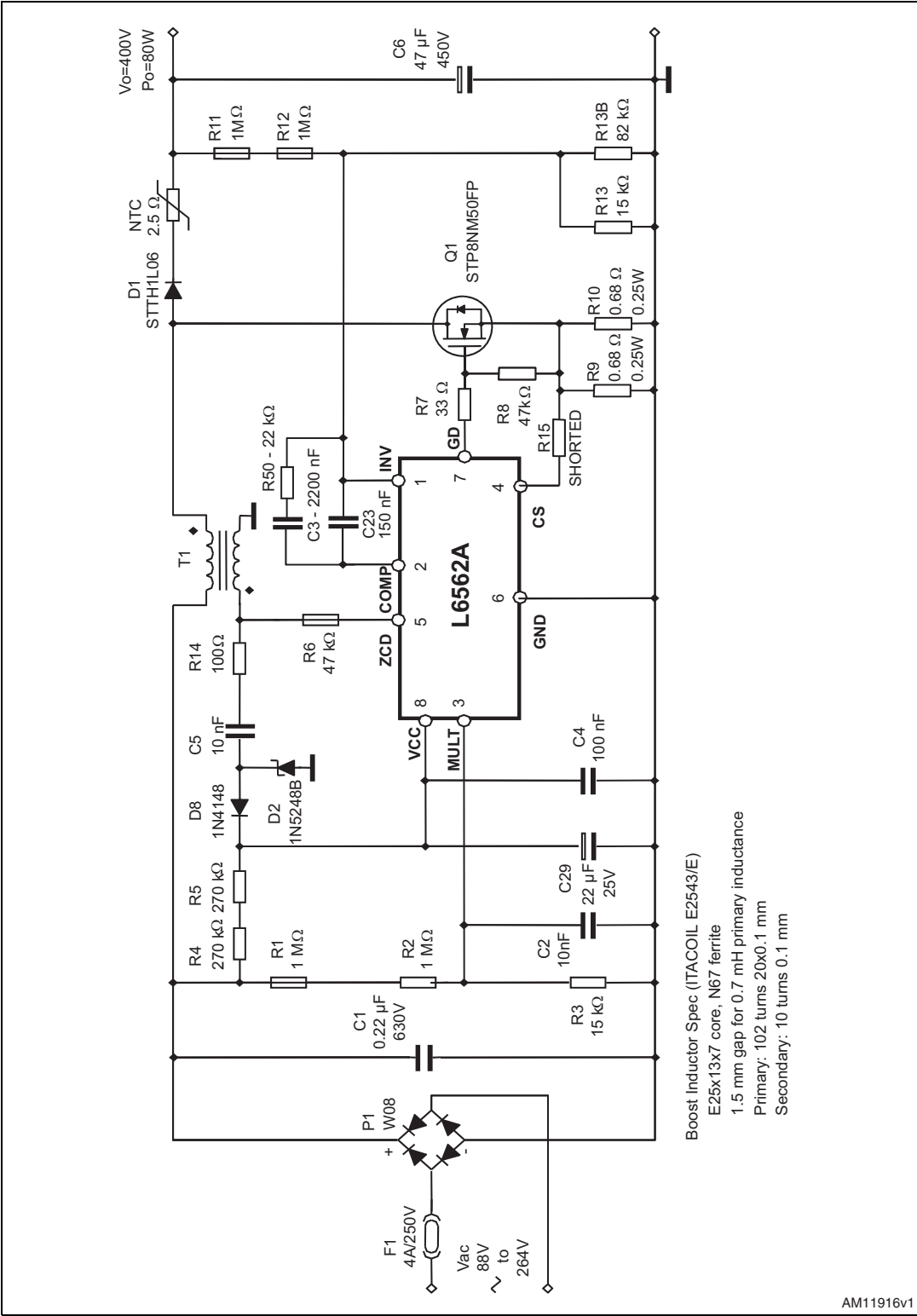
### Description

The L6562A is a current-mode PFC controller operating in transition mode (TM). With the same pinout as its L6562 predecessor, the L6562A offers improved performance mainly in terms of efficiency and noise immunity.

The STEVAL-ISA102V1 implements an 80 W, wide-range mains input and a PFC pre-conditioner suitable for ballast, adapters, flat screen displays, etc.

# 1 Circuit schematic

Figure 1. Circuit schematic



AM11916v1

## 2 Revision history

**Table 1. Document revision history**

Date	Revision	Changes
21-Feb-2012	1	Initial release.

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