



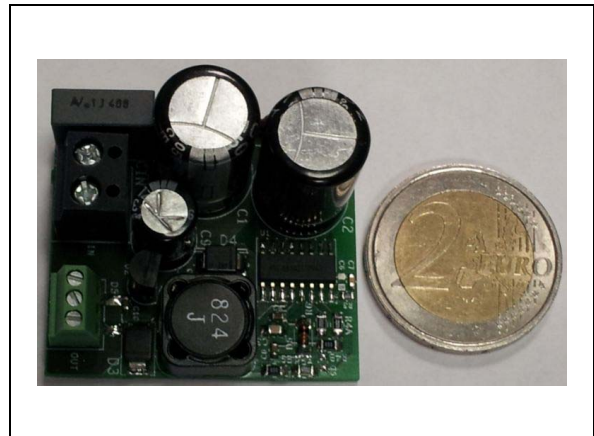
STEVAL-ISA116V1

5 W, 2-output wide-range buck converter based on the VIPER26LD

Data brief

Features

- Universal input mains range:
 - input voltage: 80 - 280 V_{AC}
 - frequency: 45 - 65 Hz
- Double-output voltage:
 - 16 V @ 0.3 A continuous operation
 - 5 V through LDO
- Standby mains consumption: < 100 mW @ 265 V_{AC}
- Fully protected against faults (overload, feedback disconnection and overheating)
- EMI: according to EN55022-Class-B
- RoHS compliant



Description

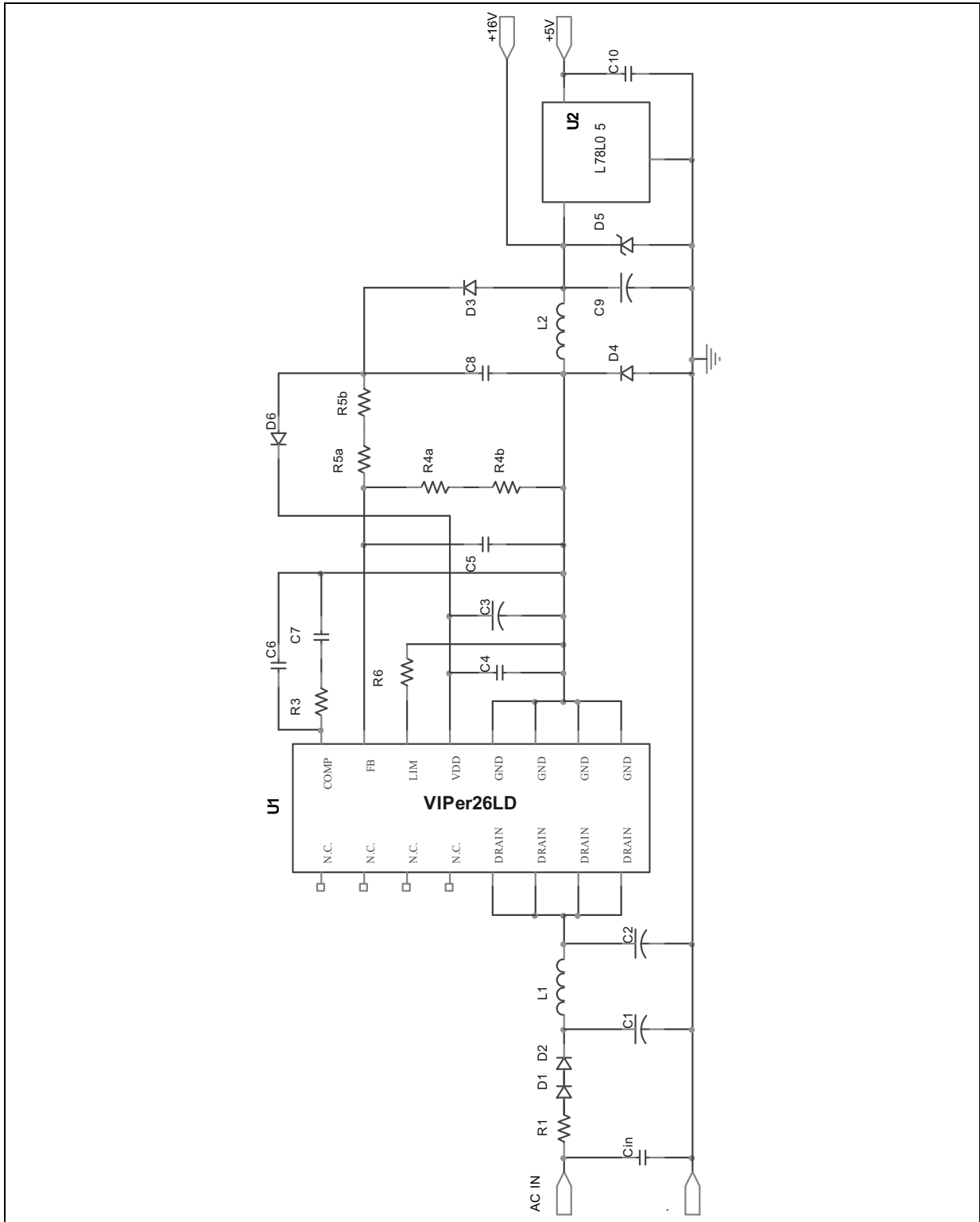
The STEVAL-ISA116V1 demonstration board implements a double-output power supply set in buck topology using the VIPER26LD, a new off-line high voltage converter by STMicroelectronics.

The features of the device include an 800 V avalanche-rugged power section, PWM operation at 60 kHz with frequency jittering for lower EMI, current limiting with adjustable set point, on-board soft-start, safe auto-restart after a fault condition and low standby power consumption.

The protection features include thermal shutdown with hysteresis, delayed overload protection and open loop failure protection. All protection is auto-restart mode.

1 Schematic diagram

Figure 1. STEVAL-ISA116V1 circuit schematic



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
12-Feb-2013	1	Initial release.