

STEVAL-ISA096V1

Data brief

Auxiliary power supply in buck-boost topology based on the Viper06

Features

- Input voltage: V_{in}: 85 ~ 264 Vrms; f: 45 ~ 66 Hz
- Output voltage: -12 Vdc ± 10%, 150 mA
- Standby < 30 mW at 264 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 B
- RoHS compliant

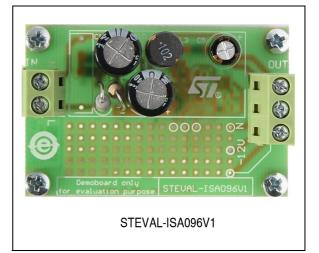
Description

The STEVAL-ISA096V1 is a switched mode power supply (SMPS) demonstration board. This non-isolated SMPS is designed in a buck-boost topology and is capable of delivering up to 2 W of output over a wide input voltage range.

This board also offers the user the possibility of adapting the circuit to specific needs, thanks to an available free PCB area.

The SMPS generates 12 V of nominal output voltage.

The STEVAL-ISA096V1 demonstration board is based on the VIPer06, a monolithic converter that integrates an 800 V avalanche-rugged MOSFET and PWM controller in one package, offering a cost-effective and space-saving solution.

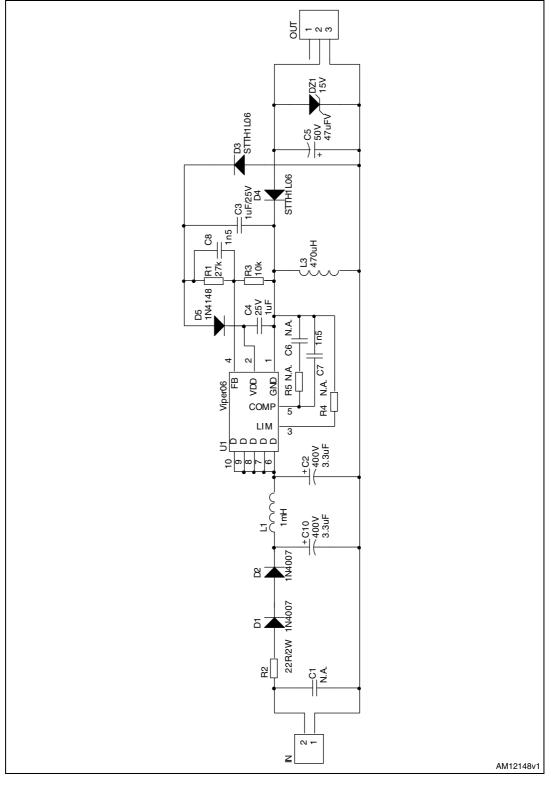


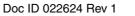
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1 Schematic









2 Revision history

Table 1.Document revision history

Date	Revision	Changes
18-Apr-2012	1	Initial release.



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