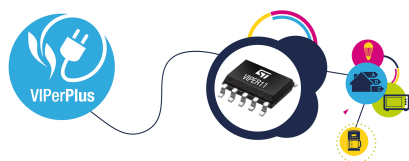


## 5 V / 0.36 A buck converter using VIPerPlus – VIPer11



### Features

- Universal AC main input voltage range: 85 V<sub>AC</sub> to 265 V<sub>AC</sub>
- Output range: 5 V / 0.36 A
- Rated output power: 1.8 W
- Input power in standby at 230 V<sub>AC</sub>: less than 18 mW
- Active mode efficiency: > 65%
- EMI: according to EN55022-Class-B
- RoHS compliant

### Description

The [STEVAL-ISA95V1](#) evaluation board implements a wide range mains buck converter (5 V / 0.36 A) developed for general purpose applications.

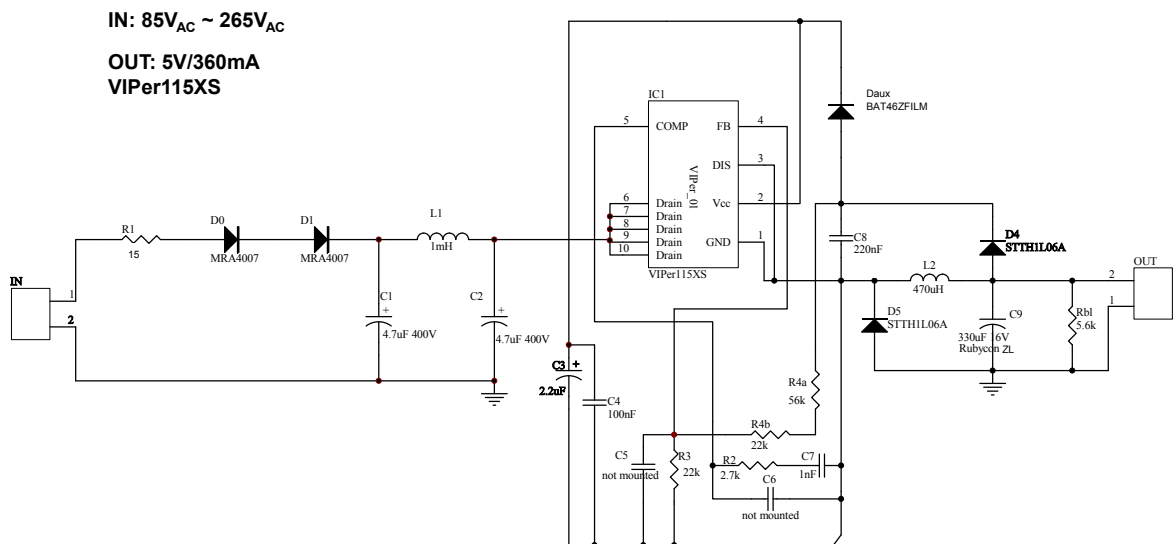
The design is built around the [VIPer11](#) off-line high voltage converter from the VIPerPlus family, which intelligently integrates an 800 V rugged power MOSFET with a current-mode control PWM.

The main characteristics of the evaluation board are its single layer, small size and minimal BoM, high efficiency and low standby consumption.

Product summary	
5 V / 0.36 A buck converter using VIPerPlus - VIPer11	<a href="#">STEVAL-ISA195V1</a>
energy saving off-line high voltage converter	<a href="#">VIPER11</a>

# 1 Schematic diagrams

**Figure 1. STEVAL-ISA195V1 circuit schematic**



## Revision history

**Table 1. Document revision history**

Date	Version	Changes
09-May-2018	1	Initial release.

**IMPORTANT NOTICE – PLEASE READ CAREFULLY**

STMicroelectronics NV and its subsidiaries ("ST") reserve the right to make changes, corrections, enhancements, modifications, and improvements to ST products and/or to this document at any time without notice. Purchasers should obtain the latest relevant information on ST products before placing orders. ST products are sold pursuant to ST's terms and conditions of sale in place at the time of order acknowledgement.

Purchasers are solely responsible for the choice, selection, and use of ST products and ST assumes no liability for application assistance or the design of Purchasers' products.

No license, express or implied, to any intellectual property right is granted by ST herein.

Resale of ST products with provisions different from the information set forth herein shall void any warranty granted by ST for such product.

ST and the ST logo are trademarks of ST. All other product or service names are the property of their respective owners.

Information in this document supersedes and replaces information previously supplied in any prior versions of this document.

© 2018 STMicroelectronics – All rights reserved