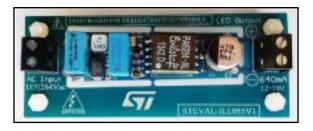


# STEVAL-ILL055V1

### High-efficiency isolated offline LED drive with 11 W fixed output and high PF, based on the HVLED815PF (EU input range)

Data brief



### Features

#### Input:

- Voltage: 185 264 Vac
- Frequency: 45 55 Hz
- Output:
  - Current: 640 mA
  - Voltage: 6 LED module (blue or white)
- Power factor
  - > 0.9
  - Efficiency
  - 84%
- PCB type and size:
  - FR4
  - Double layer
  - Copper thickness: 35 µm
  - LED driver size: 17 x 55 mm
  - Board size: 34 x 88 mm
- Isolation
  - Isolated 2 kV / 4 mm isolation gap
- EMI
  - According to EN55022 Class B

### Description

The STEVAL-ILL055V1 is an isolated SMPS designed in high power factor flyback topology. It generates a 640 mA nominal output current, delivering up to 11 W of output power and provides a cost-effective and space-saving solution. This product evaluation board is based on the HVLED815PF, a monolithic converter integrating both an 800 V avalanche-rugged MOSFET and PWM controller in a single package.

April 2014

DocID026196 Rev 1

For further information contact your local STMicroelectronics sales office

## 1 Schematic diagram

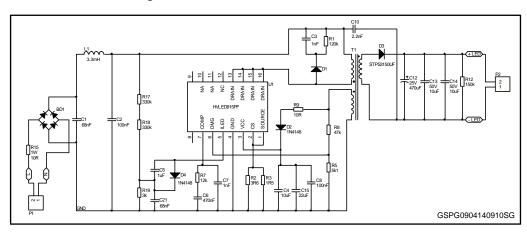


Figure 1: STEVAL-ILL055V1 circuit schematic



## 2 Revision history

Table 1: Documen	t revision history
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Data	Revision	Changes
14-Apr-2014	1	Initial release



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