# life.augmented

### 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 VacFrequency: 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 μmLED 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

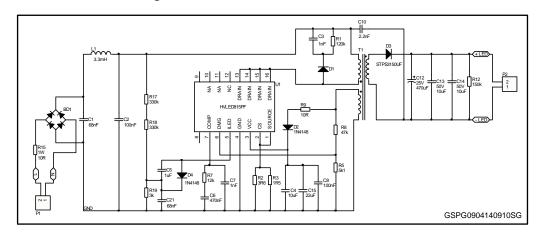
#### Description

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.

Schematic diagram STEVAL-ILL055V1

# 1 Schematic diagram

Figure 1: STEVAL-ILL055V1 circuit schematic



STEVAL-ILL055V1 Revision history

# 2 Revision history

**Table 1: Document revision history** 

Data	Revision	Changes
14-Apr-2014	1	Initial release

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