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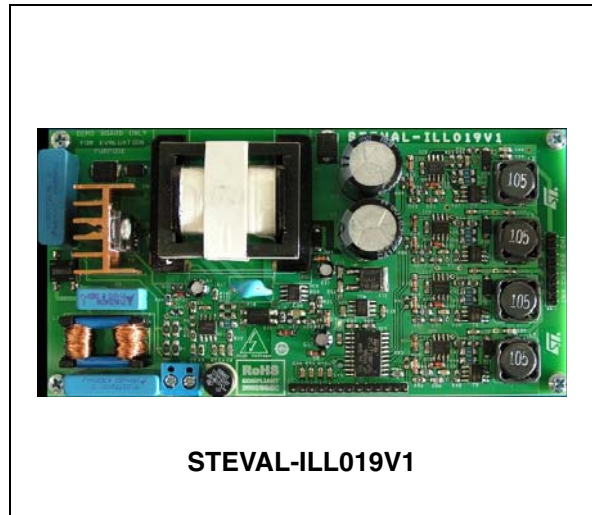
STEVAL-ILL019V1

32 W offline RRGB LED driver with individual LED channel brightness regulation

Data brief

Features

- Line voltage range: 88 to 265 VAC
- 4-channel LED driver
- Constant LED current: 350 mA
- Load: 5 to 13 LEDs per channel
- Rated output power: 32 W (wide voltage range)
- Rated output power: 42 W (EU voltage range)
- Isolated SMPS
- Individual RRGB brightness regulation
- EN55015 and EN61000-3-2 compliant
- PCB: double-side, 145 x 75 x 27 mm
- RoHS compliant



Description

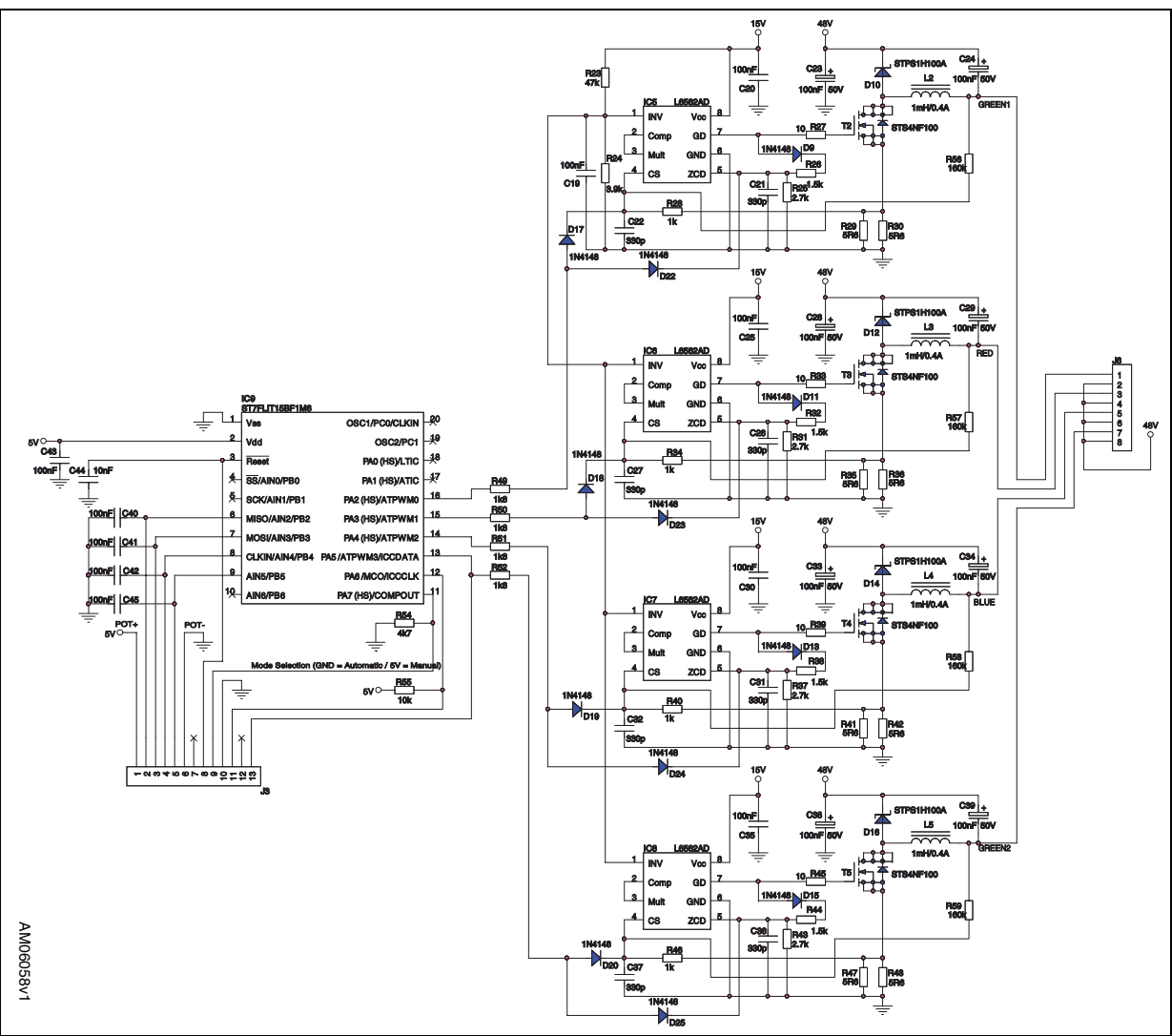
The STEVAL-ILL019V1 demonstration board implements an isolated high-PF flyback converter based on the L6562A transition-mode PFC controller, capable of supplying 4 constant-current outputs for 4 different RRGB LED modules.

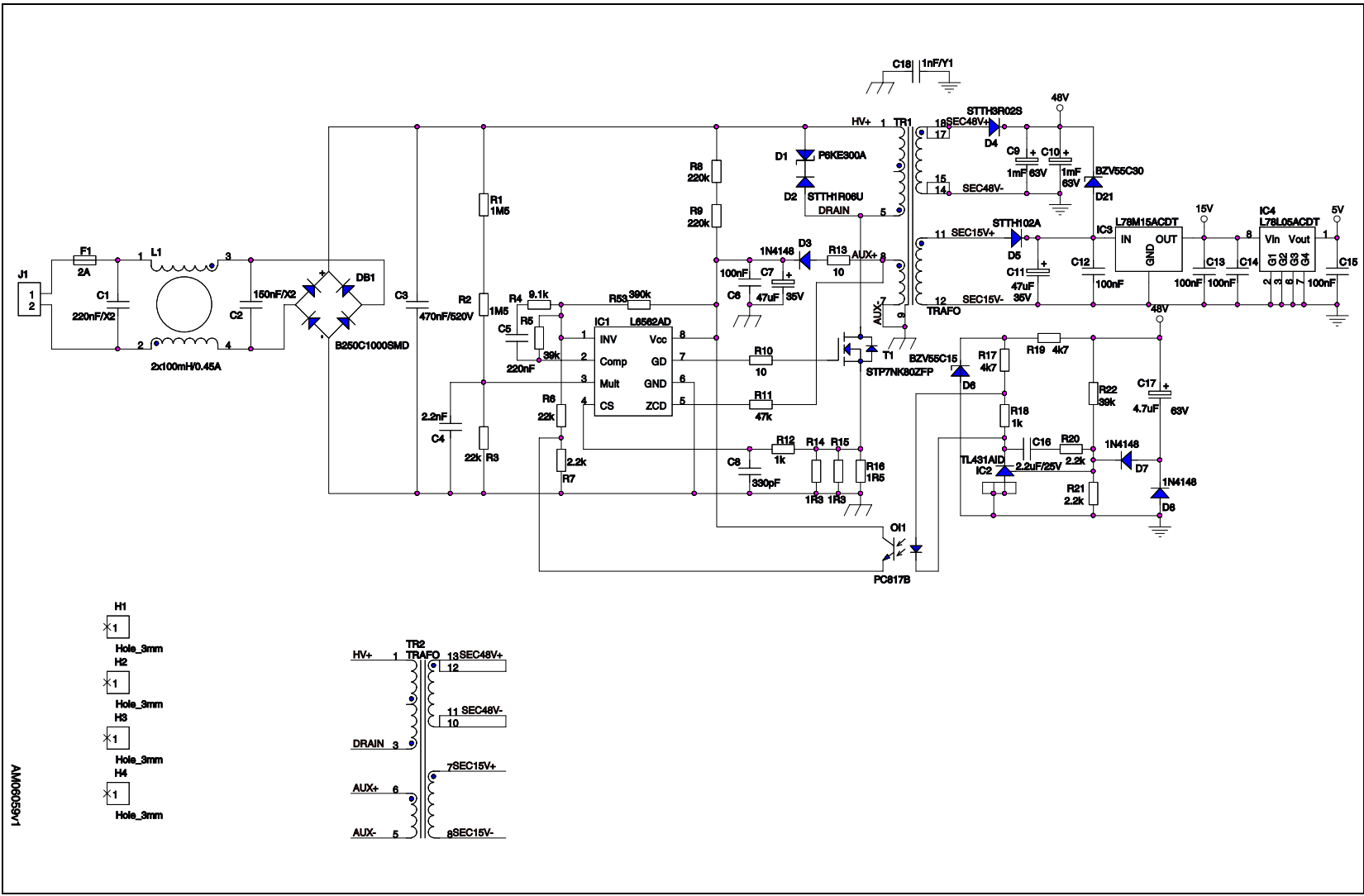
Each module can contain 5 to 13 LEDs, with each current channel set to 350 mA.

It is possible to choose between automatic color change mode or manual color adjustment mode (in the latter case some external components are required).

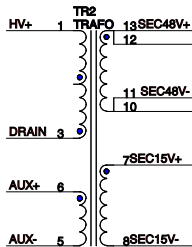
1 Schematic diagrams

Figure 1. LED driver block





- H1
×1
Hole_3mm
- H2
×1
Hole_3mm
- H3
×1
Hole_3mm
- H4
×1
Hole_3mm



AM06059v1

Figure 2. Power supply block

2 Revision history

Table 1. Document revision history

Date	Revision	Changes
19-Jan-2010	1	Initial release.

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