



STEVAL-ISA034V1

10 W 3-phase auxiliary power supply
based on the L6565 and STW3N150

Data Brief

Features

- Input voltage range : 185 Vac to 460 Vac
- Input frequency range: 50/60 Hz
- Output 1: 12 V @0.6 A
- Output 2: 5 V @ 0.55 A
- Output power : 10 W
- Safety: EN60950
- EMI: EN55014

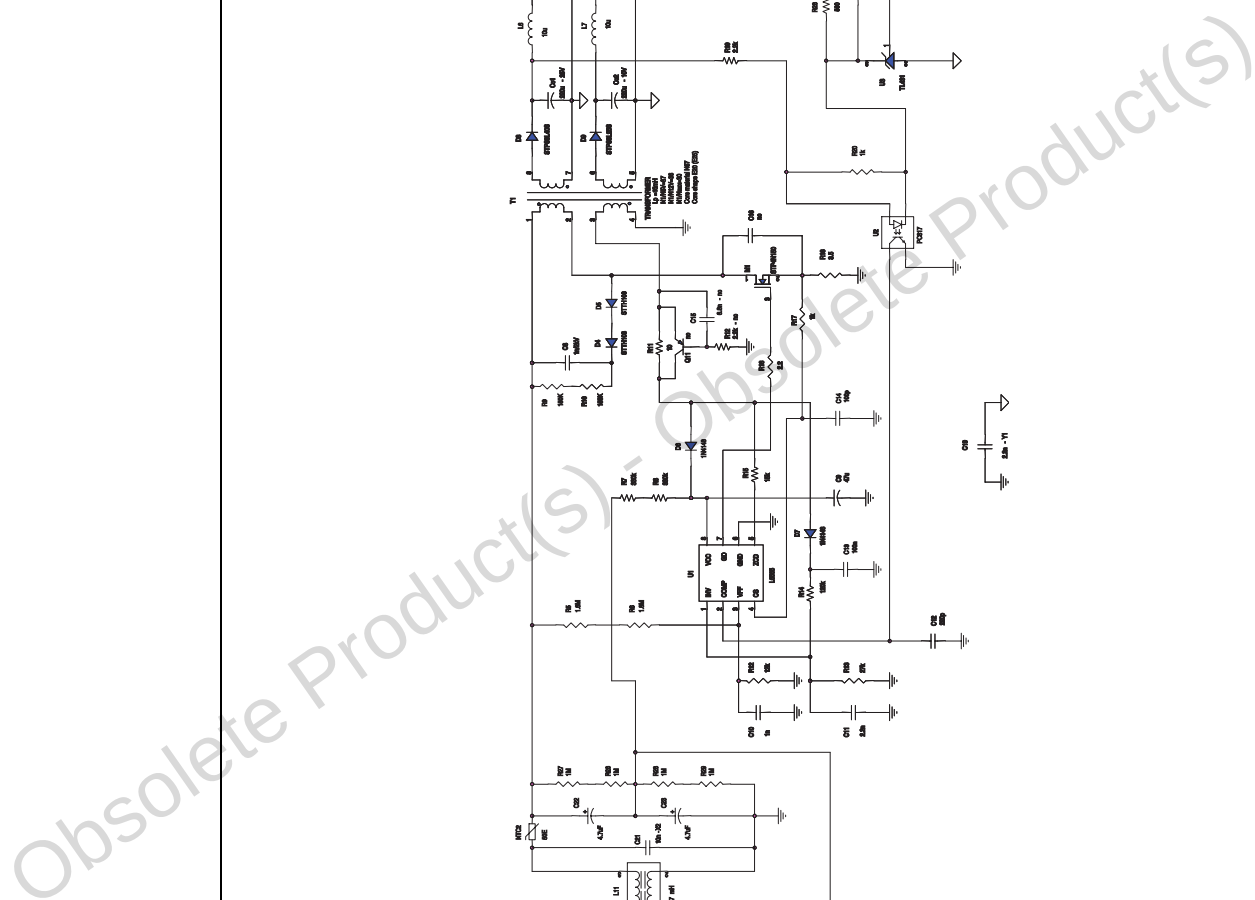
Description

This evaluation board offers a solution for industrial power supplies fed by 3-phase mains. It takes advantage of the high voltage MOSFET STW3N150 to optimize the operation of the quasi-resonant flyback converter based on the primary controller L6565. The STW3N150 is a 1500 V power MOSFET, designed with STMicroelectronics' proprietary high voltage "MESH OVERLAY™" technology. Thanks to this technology, the switch features very low $R_{DS(on)}$ per area, low gate charge and high switching performance. The evaluation board has been designed and developed to address low power applications. It features two isolated outputs (12 V and 5 V) and is capable of delivering up to 10 W of output power.



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Figure 1. Schematic



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
08-Feb-2008	1	Initial release.

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