

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 quasiresonant 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.

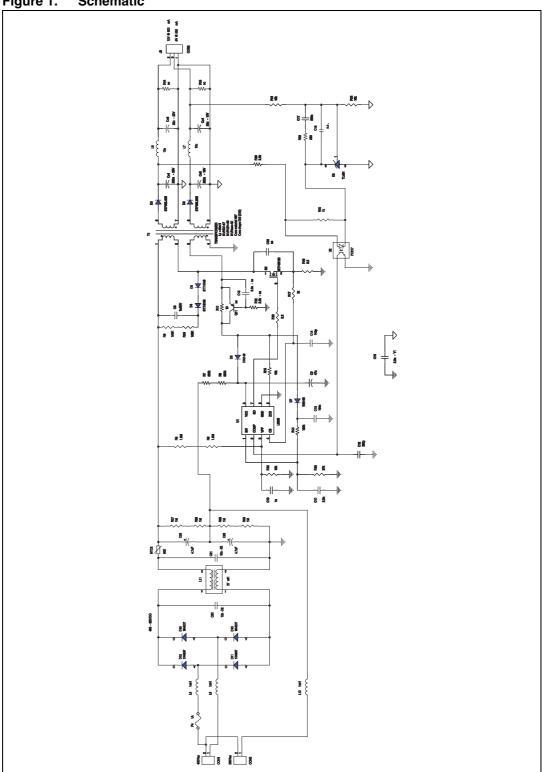


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Circuit schematic STEVAL-ISA034V1

Circuit schematic 1

Figure 1. **Schematic**



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STEVAL-ISA034V1 Revision history

2 Revision history

Table 1. Document revision history

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

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