



STEVAL-ISA019V1

80 W ESBT[®] quasi-resonant wide range SMPS evaluation board
with L6565 for 3-phase applications

Data Brief

Features

- 3-phase 80 W auxiliary output SMPS
- Quasi-resonant SMPS
- Input: 180 V_{AC} 600 V_{AC}
- Output voltage 24 V, 3.3 A
- Maximum output power 80 W
- Efficiency > 80%
- Switching frequency > 50 kHz
- Safety compliant according EN60950
- Feedback: secondary regulation



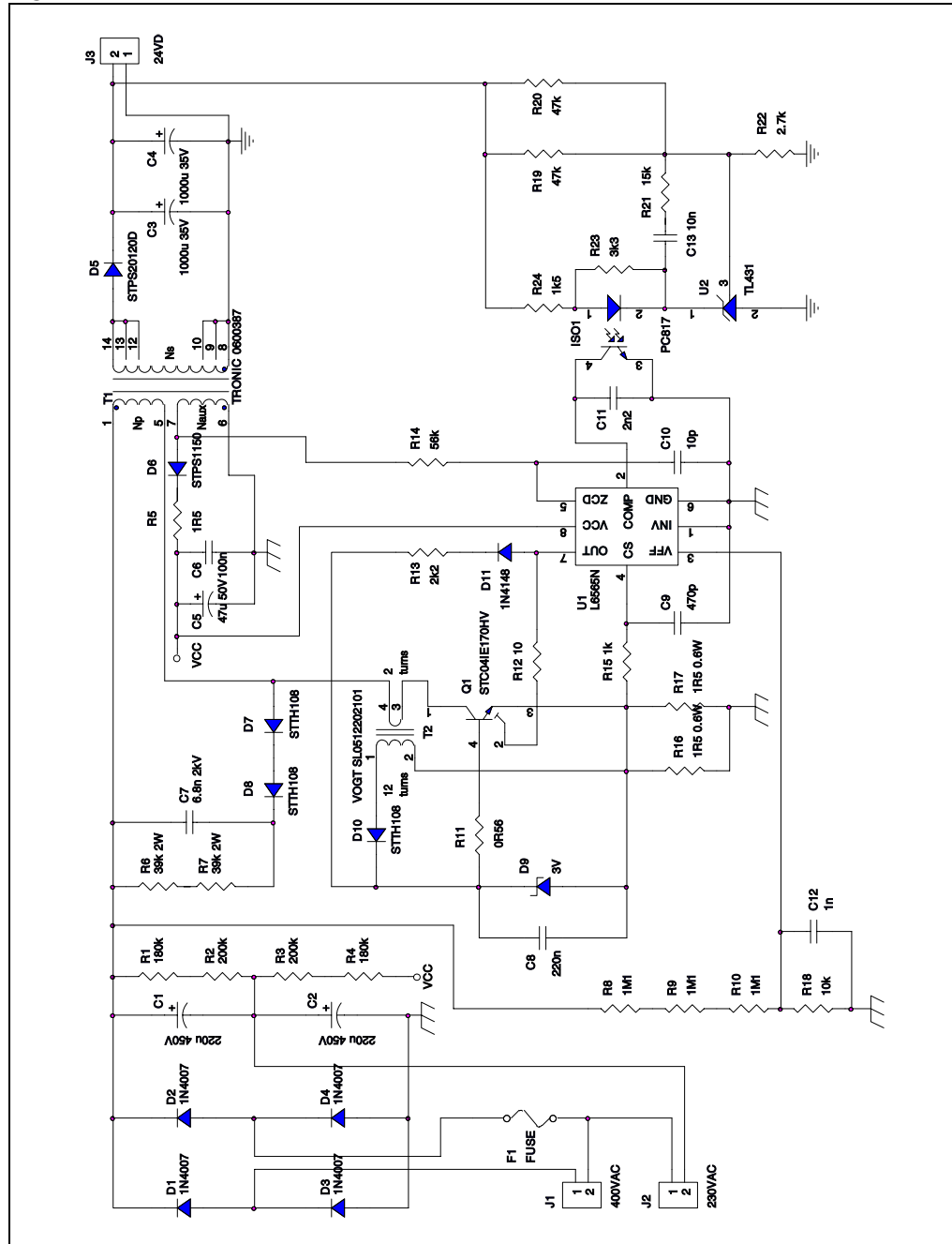
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Description

This evaluation board is a 3-phase auxiliary power supply with an 80 W dual output SMPS, using the L6565 PWM driver and the STC04IE170HV ESBT as the main switch. The combination of these ST devices provides a high-efficiency solution for high DC input voltage, a typical requirement for any three-phase application. The necessity to handle both high output power and wide input voltage is satisfied using a flyback stage working in mixed operation mode: discontinuous and continuous.

1 Board schematic

Figure 1. Schematic



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
29-Nov-2007	1	Initial release

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