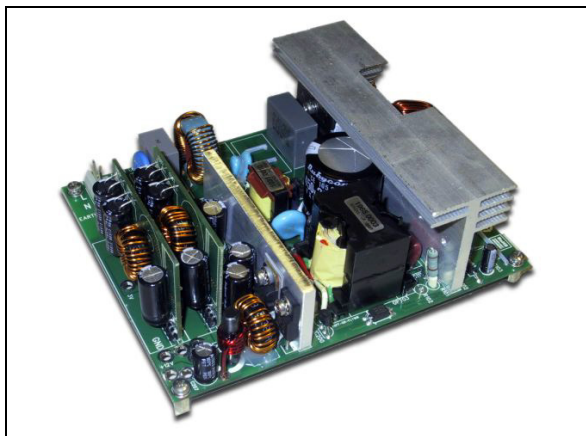


**250 W ATX SMPS evaluation board**

Data brief

**Description**

The STEVAL-ISA145V1 system evaluation board is a 250 W power supply unit that implements an ATX like (multiple output configuration) or a server like (single output configuration) design.

The STEVAL-ISA145V1 has been certified by ECOS Consulting committee compliant to the 80 PLUS<sup>®</sup> specifications.

**Features**

- Input mains range:  $V_{IN}$ : 88 ~ 264 V<sub>RMS</sub>  
frequency: 45 ~ 66 Hz
- Outputs: +12 VDC  $\pm$  2% - 13.5 A, +5 VDC  $\pm$  2% - 12 A, +3.3 VDC  $\pm$  2% - 8 A, +5 V<sub>STBY</sub>  $\pm$  2% - 2 A
- Standby consumption: < 0.2 W
- Protection features: short-circuit overload, output overvoltage brownout
- PCB type and size: FR4 double-sided, CU 70  $\mu$ m, 148 x 120 mm
- Safety: in accordance with EN60950
- EMI: in accordance with EN55022 - class B
- RoHS compliant

1

**Figure 1. Input EMI filter and PFC stage**

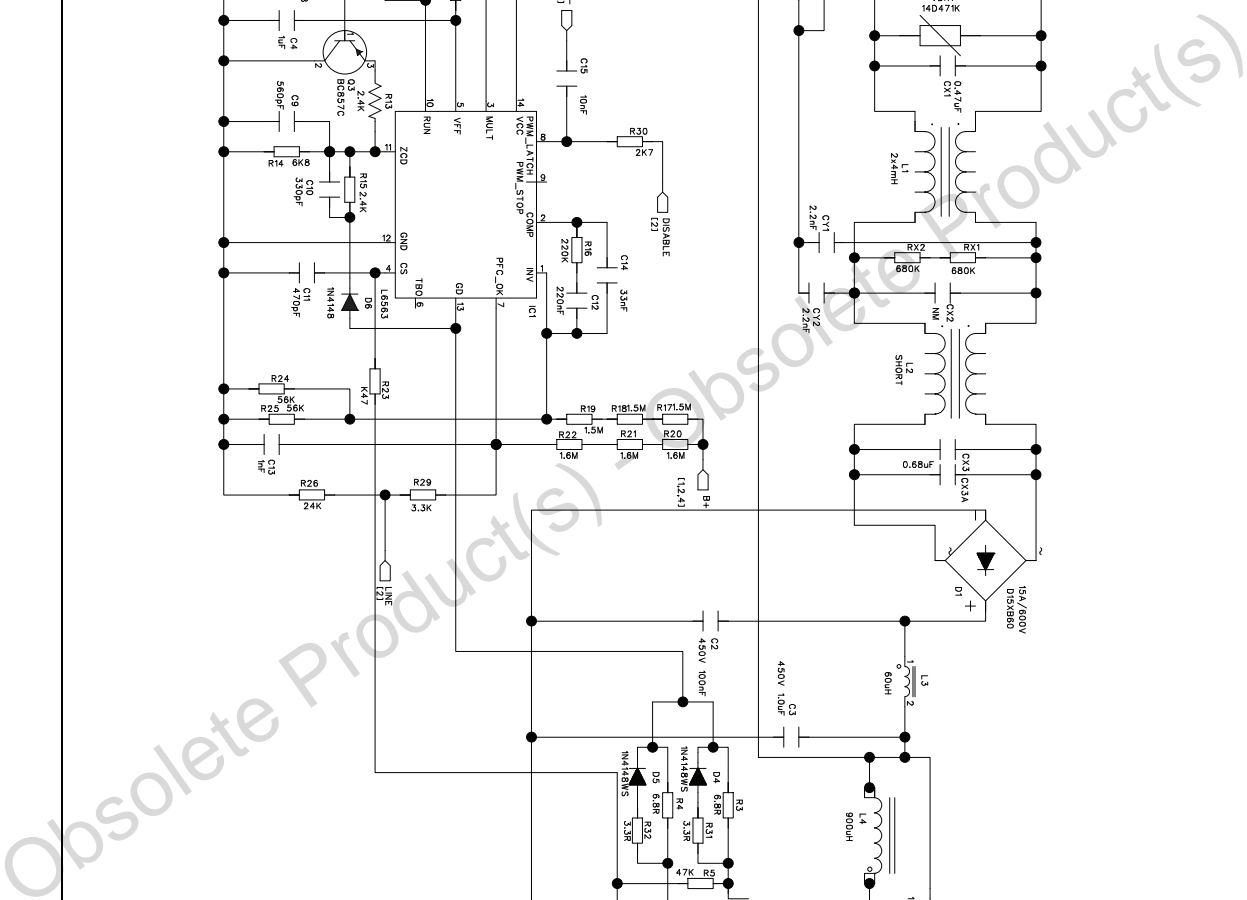


Figure 2. AHB stage

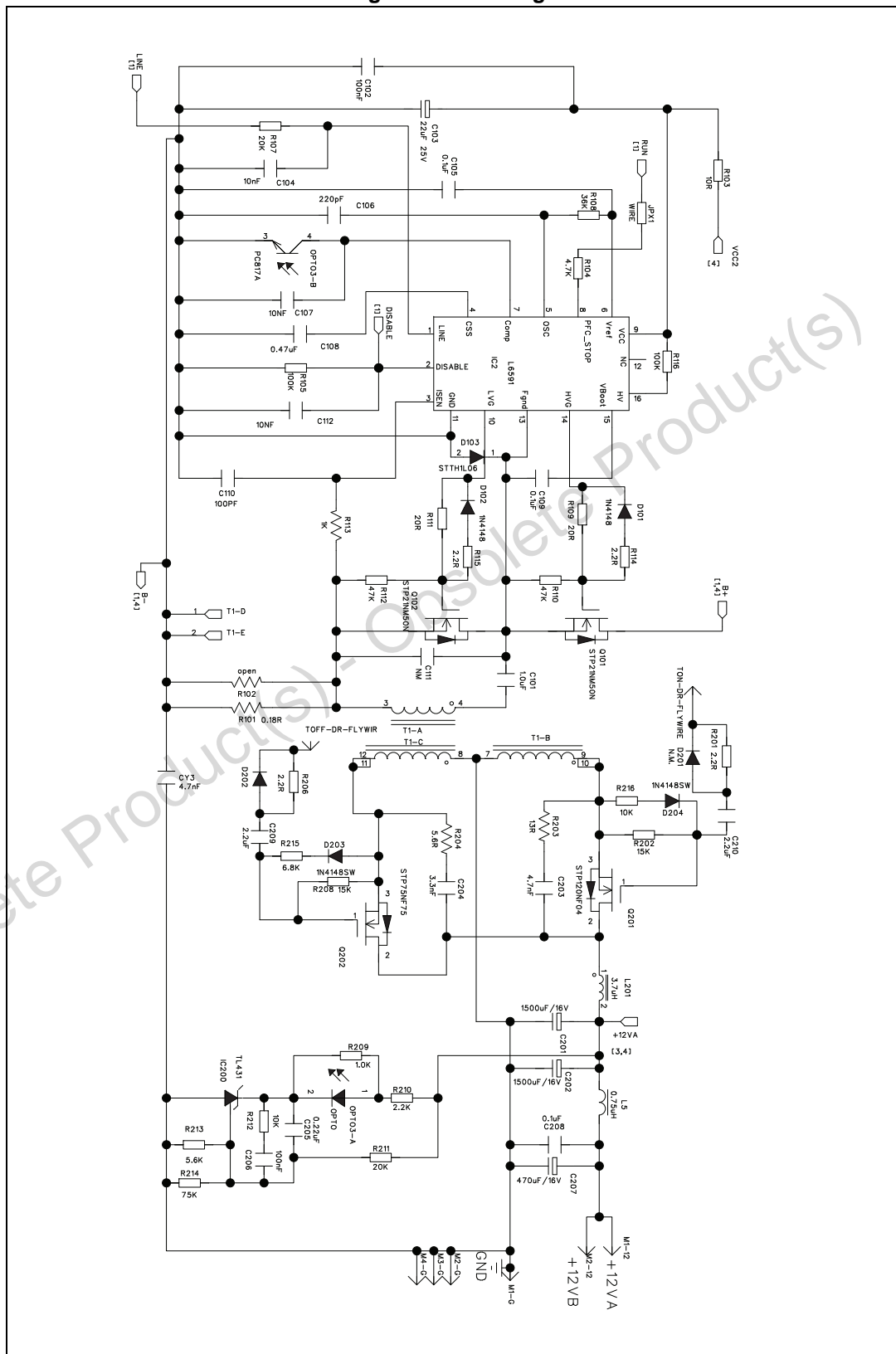


Figure 3. DC-DC stage (1 of 2)

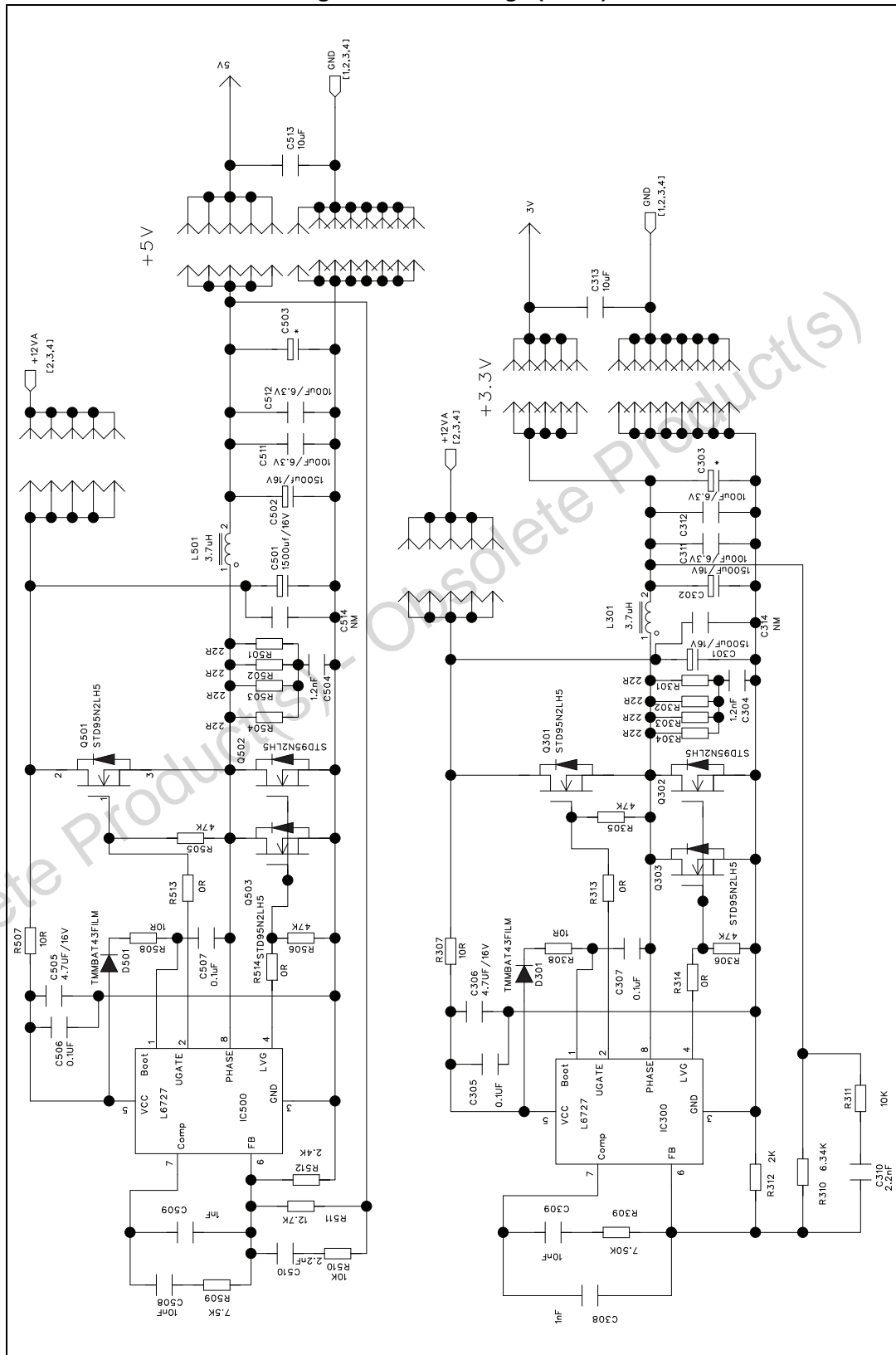
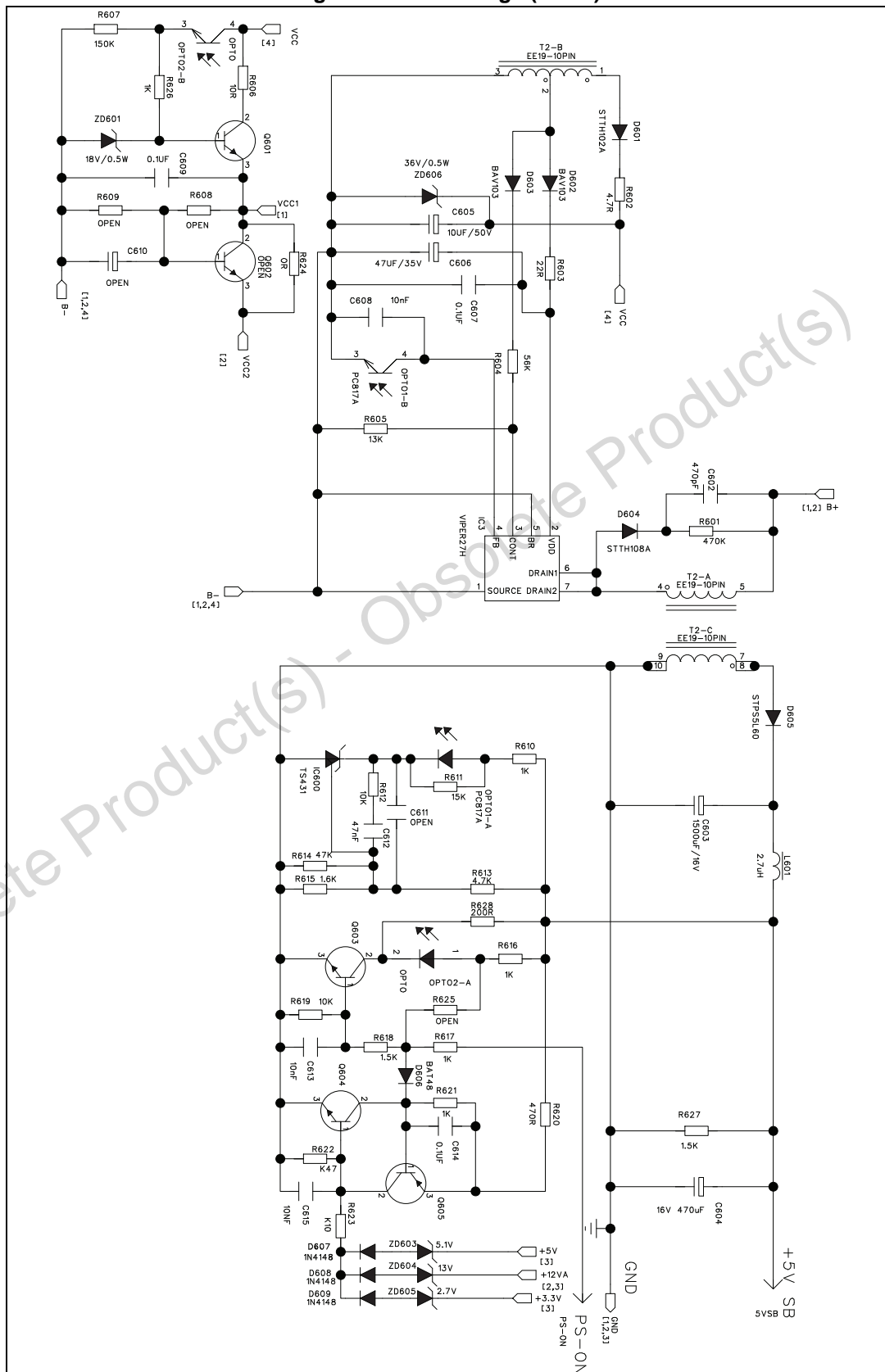


Figure 4. DC-DC stage (2 of 2)



## 2 Revision history

**Table 1. Document revision history**

Date	Revision	Changes
16-Jan-2014	1	Initial release.

Obsolete Product(s) - Obsolete Product(s)

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