

### STEVAL-ISA020V1

#### 3.5 W battery charger demonstration board based on the VIPer12AS-E and TSM101

Data Brief

#### Features

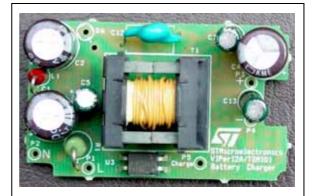
- Input voltage:
  - V<sub>IN</sub>: 88 264 Vac
  - frequency: 50-60 Hz
- Output voltages:
  - V<sub>OUT</sub> = 0 to 7 V
  - I<sub>OUT</sub> = 0.5 A
- Output signal: low battery check

#### Description

The STEVAL-ISA020V1 battery charger demonstration board utilizes an AC-DC single output converter with approximately 3.5 W of power capability.

The simple and cost-effective design is based on the Viper12AS-E low power off-line SMPS primary switcher for power conversion, and the TSM101 voltage and current controller for monitoring the battery charge level.

For further information contact your local STMicroelectronics sales office.

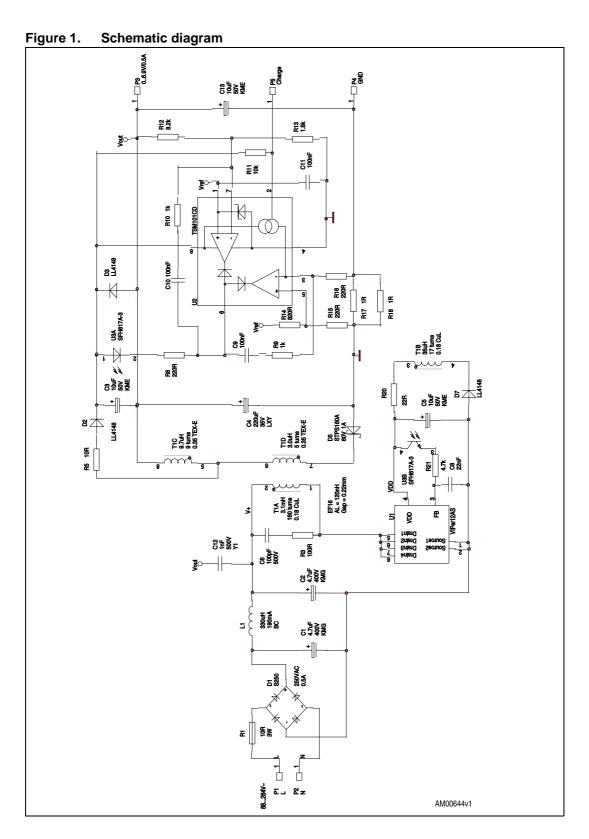


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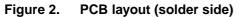
#### 1 Circuit schematic and PCB layout

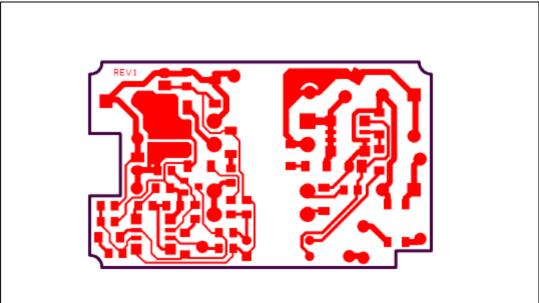




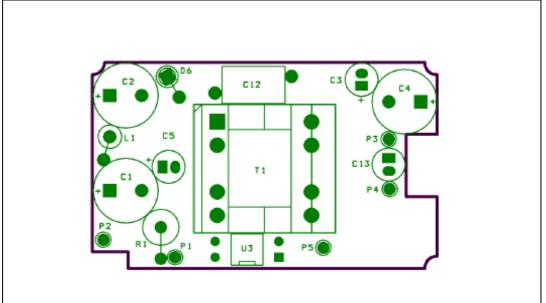
## www.BDTIC.com/ST

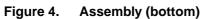
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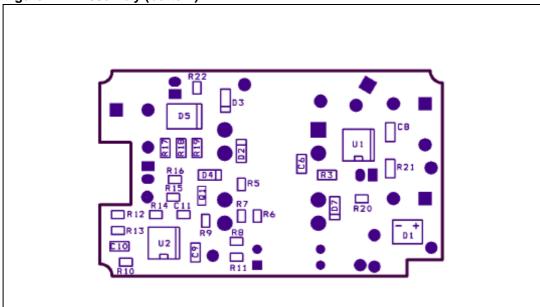














#### 2 Revision history

Table 1.Document revision history

Date	Revision	Changes
07-Jul-2008	1	Initial release.



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