

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[STMicroelectronics](#)
[EVAL6562-250W](#)

For any questions, you can email us directly:

sales@integrated-circuit.com



EVAL6562-250W

L6562-250W High performance TM PFC

Data Brief

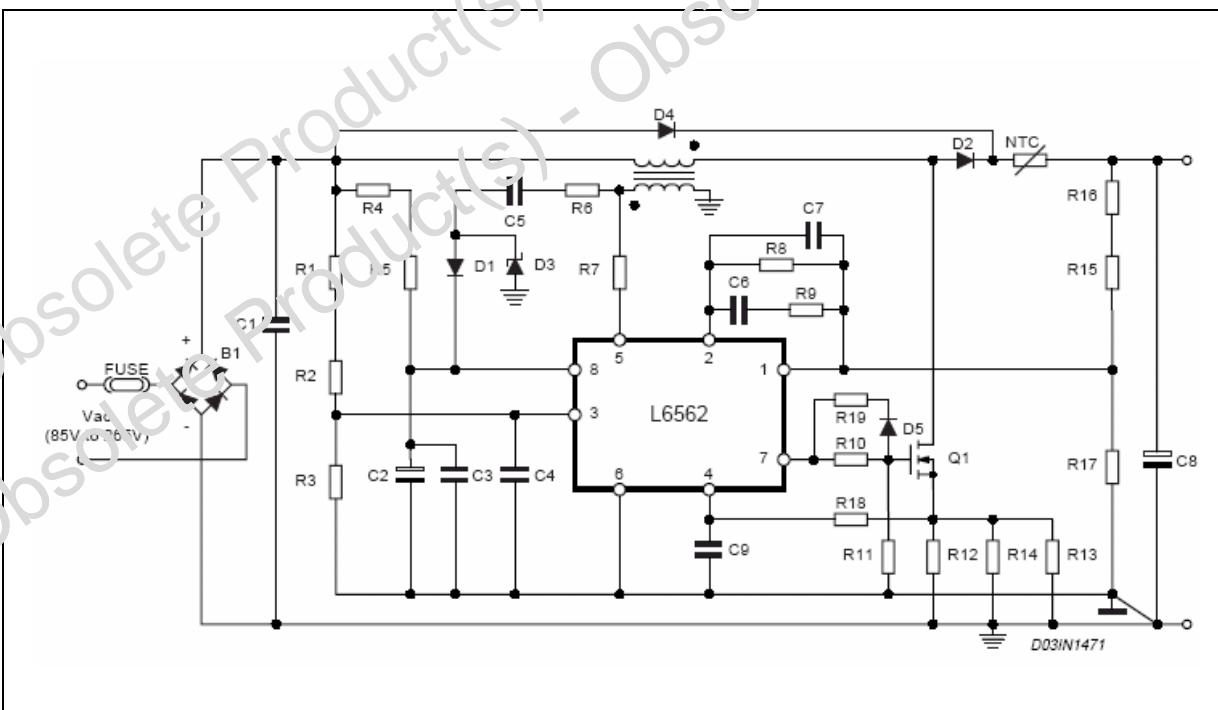
General description

The L6562 is a current-mode PFC controller operating in Transition Mode (TM). Pin-to-pin compatible with the predecessor L6561, it offers improved performance. The L6562 - 250W Evaluation Board is specific for 250W PFC pre-regulator and designed to operate in wide-range mains.



Evaluation board

EVAL6562 - 250W schematic



Part list

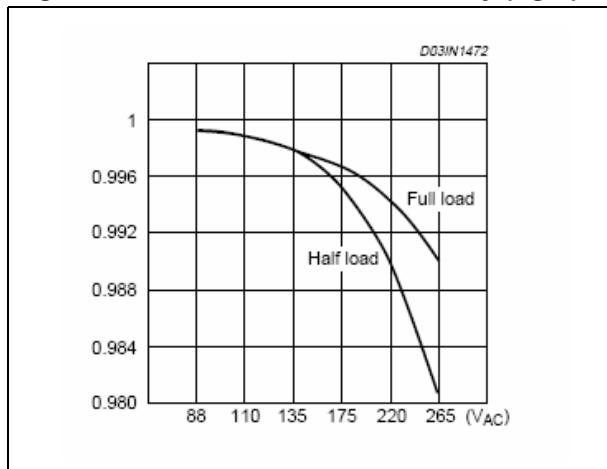
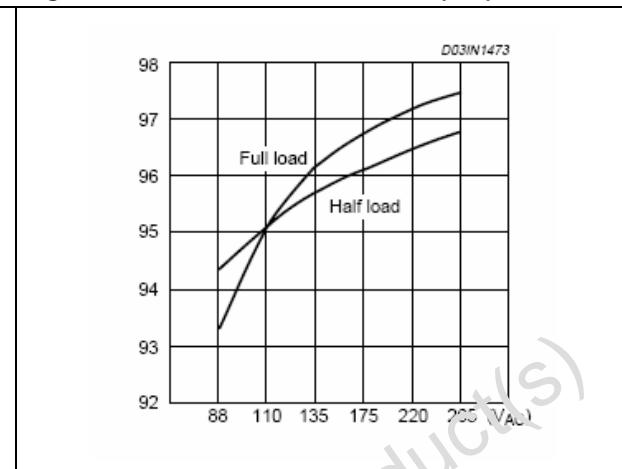
EVAL6562-250W

1 Part list

Table 1. Part list

Parameters	Values
R1, R2	910KΩ 1%
R3	13KΩ 1%
R4, R5	180KΩ 5%
R6	100Ω 5%
R7	47KΩ 5%
R8, R11, R14	OPEN
R9	20KΩ
R10	33Ω 5%
R12,13	0.33Ω 1W
R15,16	7.0KΩ 1%
R17	9.53KΩ 1%
R18	SHORT
R19	SHORT
C1	1µF, 400V
C2	22µF, 25V
C3	100nF
C4, C5	10nF
C6	680nF
C7	220nF
C8	100µF, 450V
C9	OPEN
D1	1N4148
D2 (DO-201AD)	STTH3L06
D3	ZENER 18V
D4	1N5406
D5	1N4148
Q1 (TO220)	STP20NM50
BRIDGE	STBR606 (ST)
FUSE	4A/250V
NTC	2.5

Note: 1 HEATSINKER: Aavid thermalloy max clip S508
 2 T1: Boost Inductor spec: EB0057-C (COILCRAFT)

EVAL6562-250W**Revision history****Figure 1. EVAL6562-50W: efficiency (right)****Figure 2. EVAL6562-250W: PF (left) vs. Vin****2 Revision history****Table 2. Revision history**

Date	Revision	Changes
13-Nov-2006	1	First issue

EVAL6562-250W**Please Read Carefully:**

Information in this document is provided solely in connection with ST products. STMicroelectronics NV and its subsidiaries ("ST") reserve the right to make changes, corrections, modifications or improvements, to this document, and the products and services described herein at any time, without notice.

All ST products are sold pursuant to ST's terms and conditions of sale.

Purchasers are solely responsible for the choice, selection and use of the ST products and services described herein, and ST assumes no liability whatsoever relating to the choice, selection or use of the ST products and services described herein.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted under this document. If any part of this document refers to any third party products or services it shall not be deemed a license grant by ST for the use of such third party products or services, or any intellectual property contained therein or considered as a warranty covering the use in any manner whatsoever of such third party products or services or any intellectual property contained therein.

UNLESS OTHERWISE SET FORTH IN ST'S TERMS AND CONDITIONS OF SALE ST DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY WITH RESPECT TO THE USE AND/OR SALE OF ST PRODUCTS INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE (AND THEIR EQUIVALENTS UNDER THE LAWS OF ANY JURISDICTION), OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT.

UNLESS EXPRESSLY APPROVED IN WRITING BY AN AUTHORIZED ST REPRESENTATIVE, ST PRODUCTS ARE NOT RECOMMENDED, AUTHORIZED OR WARRANTED FOR USE IN MILITARY, AIR CRAFT, SPACE, LIFE SAVING, OR LIFE SUSTAINING APPLICATIONS, NOR IN PRODUCTS OR SYSTEMS WHERE FAILURE OR MALFUNCTION MAY RESULT IN PERSONAL INJURY, DEATH, OR SEVERE PROPERTY OR ENVIRONMENTAL DAMAGE. ST PRODUCTS WHICH ARE NOT SPECIFIED AS "AUTOMOTIVE GRADE" MAY ONLY BE USED IN AUTOMOTIVE APPLICATIONS AT USER'S OWN RISK.

Resale of ST products with provisions different from the statements and/or technical features set forth in this document shall immediately void any warranty granted by ST for the ST product or service described herein and shall not create or extend in any manner whatsoever, any liability of ST.

ST and the ST logo are trademarks or registered trademarks of ST in various countries.

Information in this document supersedes and replaces all information previously supplied.

The ST logo is a registered trademark of STMicroelectronics. All other names are the property of their respective owners.

© 2006 STMicroelectronics - All rights reserved

STMicroelectronics group of companies

Australia - Belgium - Brazil - Canada - China - Czech Republic - Finland - France - Germany - Hong Kong - India - Israel - Italy - Japan -
Malaysia - Malta - Morocco - Singapore - Spain - Sweden - Switzerland - United Kingdom - United States of America

www.st.com