

Excellent Integrated System Limited

Stocking Distributor

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

STMicroelectronics STEVAL-ISA004V1

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



Distributor of STMicroelectronics: Excellent Integrated System Limited Datasheet of STEVAL-ISA004V1 - EVAL BOARD DUAL OUTPUT VIPER22A Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



STEVAL-ISA004V1

Data Brief

VIPer22A-E dual-output evaluation board with 90 to 264 V_{AC} input and 10 W output

Features

- Switch-mode general-purpose power supply
- Input: 90 to 264 V_{AC} 50/60 Hz
- Output: 12 V @ 0.42 A and 5 V @ 1 A
- Burst-mode operation in standby for Blue Angel operation
- Current mode control
- Switching frequency: 60 kHz
- 75% efficiency
- Auxiliary undervoltage lockout with hysteresis
- Output short-circuit protection
- Thermal shutdown protection
- Meets EN55022 Class B EMI specification

Description

This evaluation board is an offline, wide-range, VIPer22A-E dual-output power supply with a switching frequency of 60 kHz and is set up for secondary regulation with an optocoupler. One output delivers 5 V at 1 A and a second output delivers 12 V at 0.42 A, making for a total output power of 10 W. The evaluation board meets Blue Angel Norms, consuming less than 1 W total when working in standby mode. The board operates in burst mode when both the output loads are reduced to zero and the output voltages still remain regulated.



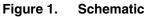


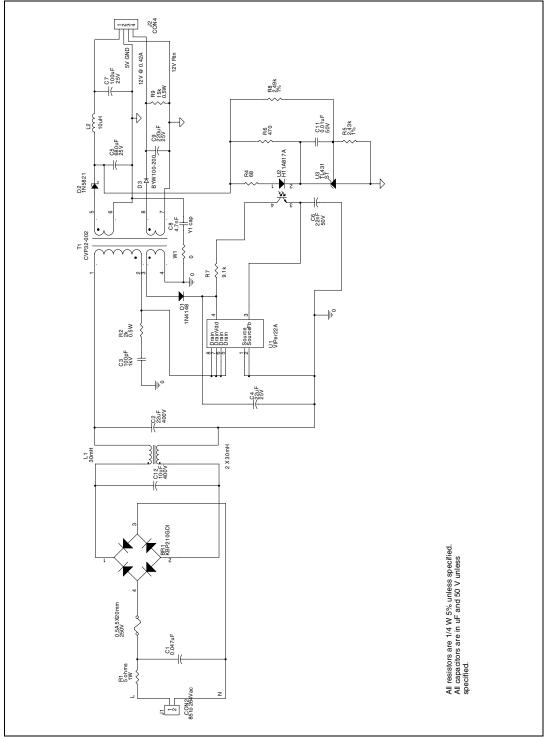
Distributor of STMicroelectronics: Excellent Integrated System Limited Datasheet of STEVAL-ISA004V1 - EVAL BOARD DUAL OUTPUT VIPER22A Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

Board schematic

STEVAL-ISA004V1

1 Board schematic









STEVAL-ISA004V1

Revision history

2 Revision history

Table 1. Document revision history

Date	Revision	Changes
28-Nov-2007	1	Initial release





STEVAL-ISA004V1

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.

© 2007 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

