Certificate of Compliance

Certificate: 70040697 (170351) **Master Contract:** 170351

Project: 70040697 **Date Issued:** 2015-07-31

Issued to: **Bel Fuse Inc.**
206 Van Vorst St
Jersey City, New Jersey 07302
USA

Attention: Editha S. Vergara

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.

Issued by: Juan-Carlos Olivera, MSc.

PRODUCTS

CLASS – 5311 11 - POWER SUPPLIES - Component Type (CSA 60950-1-07-2nd Ed)
CLASS – 5311 91 - POWER SUPPLIES - Component Type (UL 60950-1-2nd Ed) - Certified to U.S. Stds

For details related to rating, size, configuration, etc. reference should be made to the CSA Certification Record or the descriptive report.

Component type power supplies intended for use with Information Technology and Business Equipment, where the suitability of the combination is to be determined by CSA Group.

AC/DC Switching Power Supplies, Model MPB125 Series, SPAMCDT Series, and model SPAALCL-02.

Note: May be followed by R, which represents additional Vstdby circuit or D, which represents additional output oring diode or G, or SXXXX, where X can be 0-9 or any alpha character, denoting non-safety-critical options.

Certificate: 70040697 **Master Contract:** 170351
Project: 70040697 **Date Issued:** 2015-07-31

Ratings as follows:

Model	Input	Outputs
MPB125-4350 MPB125-S292	100-240 V ac, 50-60 Hz, 1.8 A	+3.3 V dc, 10 A(l) (2) +5.0 V dc, 15 A(l) (2) +12.0 V dc, 5 A -12.0 V dc, 0.5 A Maximum Output Power: 125 W
MPB125-4250	100-240 V ac, 50-60 Hz, 1.8 A	+2.5 V dc, 12 A(1) (2) +5.0 V dc, 15 A(1) (2) +12.0 V dc, 5 A -12.0 V dc, 0.5 A Maximum Output Power: 125 W
MPB125-3000	100-240 V ac, 50-60 Hz, 1.8 A	+5 V dc, 16.5 A(3) +12 V dc, 5 A -12 V dc, 0.5 A Maximum Output Power: 125 W
MPB125-2003	100-240 V ac, 50-60 Hz, 1.8 A	+3.3 V dc, 30 A(7) +12 V dc, 0.5 A Maximum Output Power: 105 W
MPB125-2005	100-240 V ac, 50-60 Hz, 1.8 A	+5 V dc, 25 A +12 V dc, 0.5 A Maximum Output Power: 125 W
MPB125-1012	100-240 V ac, 50-60 Hz, 1.8 A	+12 V dc, 10.5 A Maximum Output Power: 125 W
MPB125-2012	100-240 V ac, 50-60 Hz, 1.8 A	+12 V dc, 10.5 A +12 V dc, 0.5 A Maximum Output Power: 125 W
MPB125-2015	100-240 V ac, 50-60 Hz, 1.8 A	+15 V dc, 8.3 A +12 V dc, 0.5 A Maximum Output Power: 125 W
MPB125-2024 MPB125-S319 MPB125-S323	100-240 V ac, 50-60 Hz, 1.8 A	+24 V dc, 5.2 A +12 V dc, 0.5 A Maximum Output Power: 125 W
MPB125-2048	100-240 V ac, 50-60 Hz, 1.8 A	+48 V dc, 2.6 A +12 V dc, 0.5 A Maximum Output Power: 125 W
MPB125-RS299	100-240 V ac, 50-60 Hz, 1.8 A	+60 V dc, 2 A +12 V dc, 0.5 A +5 V sb, 0.2 A Maximum Output Power: 125 W
MPB125-S290 MPB125-S304	100-240 V ac, 50-60 Hz, 1.8 A	+24 V dc, 5.2 A(4) Maximum Output Power: 100 W
MPB125-S295	100-240 V ac, 50-60 Hz, 1.8 A	+48 V dc, 2.6 A Maximum Output Power: 125 W

Model	Input	Outputs
MPB125-S300	100-240 V ac, 50/60 Hz, 1.8 A	+3.3 V dc, 13 A(6) +5 V dc, 10 A(6) +12 V dc, 2 A Maximum Output Power: 100 W
MPB125-S306	100-240 V ac, 50/60 Hz, 1.8 A	+12 V dc, 10.5 A Maximum Output Power: 125 W
MPB125-S322	100-240 V ac, 50/60 Hz, 1.8 A	+5 V dc, 16.5 A (3) +12 V dc, 5 A Maximum Output Power: 125 W
MPB125-4350S282	100-240 V ac, 50-60 Hz, 1.8 A	+3.3 V dc, 11 A +5 V dc, 4 A +12 V dc, 1.5 A Maximum Output Power: 75 W
SPAALCL-02	100/115/220/230 V ac, 50/60 Hz, 2/2/1 A	+24 V dc, 5.2 A(4) Maximum Output Power: 100 W
SPAMCDT-01 SPAMCDT-02 SPAMCDT-03 SPAMCDT-04 SPAMCDT-05 SPAMCDT-06	100-240 V ac, 50-60 Hz, 1.8 A	+12 V dc, 10.5 A(5) Maximum Output Power: 125 W

These units have been evaluated for a maximum ambient temperature of 50°C using a 5 CFM external forced air cooling system and maximum total output power of 125 W, or with convection cooling to a maximum output power of 70 W. See below for other conditions.

Notes: (1) - The V1 and V2 outputs have been evaluated for a maximum combined output power of 80 W with 5 CFM.
(2) - The V1 and V2 outputs have been evaluated for a maximum combined output power of 40 W with no airflow.
(3) - The V1 output has been evaluated for a maximum output power of 60 W with no airflow.
(4) - The V1 output has been evaluated for a maximum output power of 100 W with no airflow.
(5) - The unit is provided with internal fan.
(6) - The V1 and V2 outputs have been evaluated for a maximum combined output power of 75 W with 5 CFM.
(7) - With external 5 CFM airflow V1 output may only operate up to 25A, and 30A with 10 CFM. Combined output power may not exceed 105 W with 10 CFM and 55 W with convection cooling.

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No 60950-1-07, +Am.1:2011 +Am.2:2014	– Information Technology Equipment - Safety - Part 1: General Requirements
UL 60950-1-2014	– Information Technology Equipment - Safety - Part 1: General Requirements

CONDITIONS OF ACCEPTABILITY

1. This component has been judged on the basis of the required spacings in the Standard for Safety of Information Technology Equipment, CSA/UL 60950-1, Second Edition, Sub clause 2.10, which would cover the component itself if submitted for Listing.

2. The power supply shall be installed in compliance with the enclosure, mounting, spacing, casualty and segregation requirements of the end-use application.

3. This power supply has only been evaluated for use in a Pollution Degree 2 environment.

4 This power supply has been evaluated for use in a 50°C ambient. An additional evaluation should be made if the power supply is intended to be used in an elevated ambient.

5. The power supply shall be properly bonded to main protective earthing termination in the end product.

6. The input and output connectors have not been evaluated for field connection and are only intended for connection to mating connectors of internal wiring inside the end-use machine. The acceptability of these and the mating connectors relative to secureness, insulating materials, and temperature shall be considered.

7. Magnetic device transformer, T1 employs an OBJY2 electrical insulation system designated Class B.

8. The secondary outputs of this power supply are SELV, except the outputs of model MPB125-RS299 which are hazardous voltage.

9. All secondary outputs of these power supplies are not hazardous energy levels.

10. The unit was evaluated with external forced air cooling of 5 CFM, (10 CFM for MPB125-2003) and with convection cooling only; except as noted for model SPAALCL-02, which is tested inside a chassis. Models SPAMCDT-01 and SPAMCDT-02 were tested with their chassis which include 3 internal fans. No external cooling was provided. Power for the fans was provided by an external power source.

11. A suitable Electrical and Fire enclosure shall be provided.

Supplement to Certificate of Compliance

Certificate: 70040697 (170351) **Master Contract:** 170351

The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
70040697	2015-07-31	AC/DC Switching Power Supplies, Model MPB125 Series, SPAMCDT Series, and model SPAALCL-02. (C/US) (transferred from 173688 -2237842 and upgraded to include Am2).

CERTIFICATE

No. P15220325

Order No. 292059

Product	AC/DC switching power supply
Applicant	Bel Fuse Inc. 206 Van Vorst St. Jersey City, NJ 07302 USA
Manufacturer	Bel Fuse Inc. 206 Van Vorst St. Jersey City, NJ 07302 USA
Factory	☑ See page 2
Ratings	1.8A, 100-240Vac, 50/60Hz Output: See General Product Information for output ratings
Trade mark	bel POWER SOLUTIONS & PROTECTION a bel group
Model / Type Ref.	MPB125-xxxx
Principal characteristics	where model name may be followed by suffix R or G or X, where R denotes standby and remote on/off circuitry, G denotes ROHS version and X denotes a series of alphanumeric characters indicating non-safety critical options. See table in General product information for additional model variations. ☐ See next page(s)
A sample of the product was tested and found to be in conformity with	OFF EN 60950-1:2006;A11;A1;A12;A2
Validity	This certificate documents conformity with the standards shown, and also applies as license for use of Nemkos name and certification mark. The certificate and license is valid as long as the applicable conditions are complied with, and provided that any changes to the product are notified to Nemko for acceptance prior to implementation. New standards or amendments to the standards may imply that the product design must be updated and/or that re-testing and re-certification is necessary.
Additional information	☐ See next page(s) The abovementioned certified equipment complies with current regulatory requirements regarding electrical safety in Norway and other EU/EEA member states, as far as this can be checked. Compliance with requirements regarding building-in, protection against electric shock and Electromagnetic Compatibility (EMC) must be checked when the equipment is built-in a completed product or forms a part of a complete system.
Additional model(s)	☐ See next page(s)

Date of issue 08-10-2015

Okhyun Jeon

Certification Department

Nemko AS
Gaustadalléen 30, P.O. Box 73 Blindern, 0314 Oslo, Norway
TEL +47 22 96 03 30 FAX +47 22 96 05 50 EMAIL info@nemko.com
ENTERPRISE NUMBER NO974404532

Factories:

BPS Asia Pacific Electronics (Shenzhen) Co., Ltd.
Building# 6, Nanming Road, Gongming Town Huahong
Xintong Industrial Park, Guangming District
518108 Shenzhen
China

Bel Power Solutions, s.r.o.
Areal ZTS 924
01841 Dubnica nad Vahom
Slovakia

Date of issue 08-10-2015

Okhyun Jeon

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ENTERPRISE NUMBER NO974404532

Ref. Certif. No.

NO88712

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

SYSTEME CEI DACCEPTATION MUTUELLE DE CERTIFICATS DESSAIS DES EQUIPEMENTS ELECTRIQUES (IECEE) METHODE OC

CB TEST CERTIFICATE CERTIFICAT D'ESSAI OC

Product Produit	AC/DC switching power supply
Name and address of the applicant Nom et adresse du demandeur	Bel Fuse Inc. 206 Van Vorst St. Jersey City, NJ 07302 USA
Name and address of the manufacturer Nom et adresse du fabricant	Bel Fuse Inc. 206 Van Vorst St. Jersey City, NJ 07302 USA
Name and address of the factory Nom et adresse de l'usine Note: When more than one factory, please report on page 2 Note: Lorsque il y plus d'une usine, veuillez utiliser la deuxième page	☑ Additional information on page 2
Ratings and principal characteristics Valeurs nominales et caractéristiques principales	1.8A 100-240Vac 50/60Hz Output: See General Product Information for output ratings
Trademark (if any) Marque de fabrique (si elle existe)	bel POWER SOLUTIONS & PROTECTION a bel group
Type of Manufacturer's Testing Laboratories used Type de programme du laboratoire d'essais constructeur	
Model / Type Ref. Ref. De type	MPB125-xxxx
Additional information (if necessary may also be reported on page 2) Les informations complémentaires (si nécessaire, peuvent être indiqués sur la deuxième page	where model name may be followed by suffix R or G or X, where R denotes standby and remote on/off circuitry, G denotes ROHS version and X denotes a series of alphanumeric characters indicating non-safety critical options. See table in General product information for additional model variations. ☐ Additional information on page 2
A sample of the product was tested and found to be in conformity with Un échantillon de ce produit a été essayé et a été considéré conforme à la	IEC 60950-1(ed.2);am1;am2
As shown in the Test Report Ref. No. which forms part of this Certificate Comme indiqué dans le Rapport dessais numéro de référence qui constitue partie de ce Certificat	292059

This CB Test Certificate is issued by the National Certification Body
Ce Certificat dessai OC est établi par l'Organisme **National de Certification**

Nemko
Gaustadalléen 30
NO-0373 Oslo, Norway

Date: 08-10-2015

Signature: Okhyun Jeon
Certification Department

BPS Asia Pacific Electronics (Shenzhen) Co., Ltd.
Building# 6, Nanming Road, Gongming Town Huahong
Xintong Industrial Park, Guangming District
518108 Shenzhen
China

Bel Power Solutions, s.r.o.
Areal ZTS 924
01841 Dubnica nad Vahom
Slovakia

Nemko
Gaustadalléen 30
NO-0373 Oslo, Norway

Date: 08-10-2015

Signature: Okhyun Jeon
Certification Department

Test Report issued under the responsibility of

www.nemko.com

TEST REPORT

IEC 60950-1

Information technology equipment – Safety – Part 1: General requirements

Report Number.....:	292059
Date of issue.....:	5 October 2015
Total number of pages.....	60 pages
Applicant's name.....:	Bel Fuse Inc.
Address.....:	206 Van Vorst St., Jersey City, NJ 07302
Test specification:	
Standard.....:	IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013
Test procedure.....:	CB-Scheme
Non-standard test method.....:	N/A
Test Report Form No.....:	IEC60950_1F
Test Report Form(s) Originator.....:	SGS Fimko Ltd
Master TRF.....:	Dated 2014-02

This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

General disclaimer:

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing CB Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.

Test item description.....:	AC/DC switching power supply
Trade Mark .....:	bel POWER SOLUTIONS & PROTECTION a bel group
Manufacturer.....:	Same as Applicant
Model/Type reference.....:	MPB125-xxxx Series (followed by suffix R or G or X), where R denotes stand-by and remote on/off circuitry, G denotes ROHS version and X denotes a series of alphanumeric characters indicating non-safety critical options. See table in General product information for additional model variations.
Ratings .....:	Input: 1.8 A, 100-240 Vac, 50/60 Hz Output: See General Product Information for output ratings.

Testing procedure and testing location:

CB Testing Laboratory:	**Nemko USA Inc.**	
Testing location/ address.....:	**2210 Faraday Ave. Suite 150, Carlsbad, CA 92008, USA**	
Associated CB Testing Laboratory:		
Testing location/ address.....:		
Tested by (name + signature).....:	Eli Madrigal	
Approved by (+ signature).....:	Jeff Busch	

Report History:
Original report

List of Attachments (including a total number of pages in each attachment):

Attachment 1: European Group Differences and National Deviations ..... 82 pages
Documented deviations contain individual national documents for several European countries that are included in the European Group Deviations. The European Group Difference: EN60950:2006/A11:2009/A:2010/A12:2011/A2:2013 are considered “Normative”. The individual national documents (Denmark, Finland, Germany, Ireland, Norway, Spain, Sweden, Switzerland and United Kingdom) are considered “informative” and included at the manufacturer’s request.

Attachment 2: Miscellaneous Documentation, e.g. Photos, Installation & User’s Manual, etc. ... 15 pages
(Not for publication – Engineering use only)

Summary of testing:	
General	All comments relate to all models, unless specifically stated.
Power supply	The equipment is an open frame, Class I switch mode power supply with universal AC input terminal for all models except model MPB125-S322 and model MPB125-S304 which use Appliance inlets. All models include multiple / single DC voltage outputs for building-in. This report covers multiple models and all comments / tests apply to all models unless otherwise indicated. Testing was conducted on Interchangeable models as indicated.
1.5, 3.2.5; Power supply cord set.	A power supply cord set was not evaluated and is not provided with the power supply. A power supply cord set, complying with the national regulations of the country in which the product is to be sold, shall be provided with the end-use equipment.
1.7.2; Safety instructions.	Instructions and equipment markings related to safety are to be provided in a language, which is acceptable in the country in which the equipment is to be sold. English language verified.
1.7.2.4; IT power distribution systems.	The equipment complies with the requirements for connection to the Norwegian IT power systems. The following information should be given (but is not required) in the installation instruction: “This product is also designed for IT power system with Phase to Phase voltage 230V.”
2.7.4; Number and location of protective devices.	In Norway, IT power distribution system is used. Equipment with a single protective device is accepted in Norway. Other countries may have additional requirements.
2.7.6; Warning to service personnel.	After operation of the protective device, the equipment is still under voltage if it is connected to an IT-power system. A warning is required for service personnel. Norway does not require this warning.
5.2: Electric Strength test	Increased test voltages for Basic insulation applied to the equipment, based on measured working voltages.

Summary of testing: (continued)	
Tests performed (name of test and test clause)**:** 1) Input Test ..... 1.6.2 2) Durability Test ..... 1.17.11 3) Capacitance Discharge Test ..... 2.1.1.7 4) SELV Reliability Test ..... 2.2 5) Protective Bonding Test ..... 2.6.3.4 6) Humidity Test ..... 2.9.2 7) Working Voltage Measurement ..... 2.10.2 8) Hazardous Voltage Measurement ..... 2.10.2 9) Heating Test ..... 4.5.1 10) Touch Current Test ..... 5.1 11) Electric Strength Test ..... 5.2.2 12) Component Failure Test ..... 5.3 13) Abnormal Operation Test ..... 5.3 14) PS Output Overload and Short Test 5.3	**Testing location:** See page 2

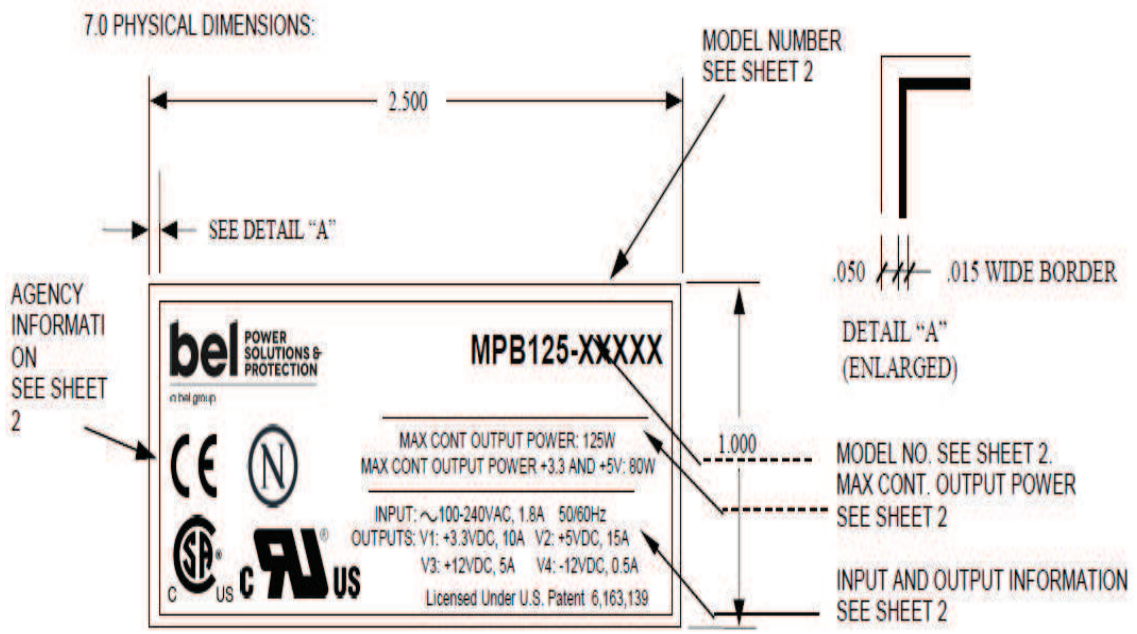
Summary of compliance with National Differences:

List of countries addressed

Austria (AT), Australia (AU), Canada (CA), China (CN), Denmark (DK), Finland (FI), Germany (DE), Ireland (IE), Israel (IS), Korea (KR), Norway (NO), Slovenia (SI), Spain (ES), Sweden (SE), Switzerland (CH), United Kingdom (GB), United States of America (US)

☒**The product fulfils the requirements of:** EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013.

Copy of marking plate: The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective Certification Bodies that own these marks.



Notes: The above is a sample of label mould, detail output(s) and model see General Product Information.

calibration	All instruments used in the tests given in this test report are calibrated and traceable to national or international standards. Further information about traceability will be given on request.
Measurement uncertainty	Measurement uncertainties are calculated for all instruments and instrument set-ups given in this report. Calculations are based on the principles given in the standard EZ-4/02 (Dec.1999), IEC Guide 155:2007, Nemko routine L227 and other relevant internal Nemko-procedures. Further information about measurement uncertainties will be given on request.
Evaluation of result	If not explicitly stated otherwise in the standard, the test is passed if the measured value is equal to or below (above) the limit line, regardless of the measurement uncertainty. If the measured value is above (below) the limit line, the test is not passed-ref IEC Guide 115:2007, and Nemko routine L220. The instrumentation accuracy is within limits agreed by IECEE-CTL (ref. Nemko routine L227)

Test item particulars:	
Equipment mobility	[] movable [] hand-held [] transportable [] stationary [**X**] for building-in [] direct plug-in
Connection to the mains	[] pluggable equipment [] type A [] type B [] permanent connection [] detachable power supply cord [] non-detachable power supply cord [] not directly connected to the mains [**X**] for building-in, to be evaluated at end use
Operating condition	[**X**] continuous [] rated operating / resting time:
Access location	[**X**] operator accessible [] restricted access location
Over voltage category (OVC)	[] OVC I [**X**] OVC II [] OVC III [] OVC IV [] other:
Mains supply tolerance (%) or absolute mains supply values	-10% / +10%
Tested for IT power systems	[**X**] Yes (Norway only) [] No
IT testing, phase-phase voltage (V)	230
Class of equipment	[**X**] Class I [] Class II [] Class III [] Not classified
Considered current rating of protective device as part of the building installation (A)	16 A for Europe, 20 A for North America
Pollution degree (PD)	[] PD 1 [**X**] PD 2 [] PD 3
IP protection class	IPX0 (Not evaluated for ingress of water)
Altitude during operation (m)	2000 m
Altitude of test laboratory (m)	38 m, sea level
Mass of equipment (kg)	0.297 Kg: MPB125 models 0.445 Kg: MPB125-S322
Temperature, Ambient (°C)	50 °C

Possible test case verdicts:	
- test case does not apply to the test object	N/A
- test object does meet the requirement	P (Pass)
- test object does not meet the requirement	F (Fail)

Testing	
Date of receipt of test item	October 2015
Date (s) of performance of tests	October 2015

General remarks:
"(See Enclosure #)" refers to additional information appended to the report.
"(See appended table)" refers to a table appended to the report.
Throughout this report a ☐ comma / ☒ point is used as the decimal separator.

Manufacturer's Declaration per sub-clause 6.2.5 of IECEE 02:	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	☒ **Yes** ☐ **Not applicable**
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies)……...:	Bel Power Solutions s.r.o. ArealZTS Dubnica n.Vahom c.924 01841 Dubnica nad Vahom SLOVAKIA BPS Asia Pacific Electronics (Shenzhen) Co. Ltd. Building# 6, Nanming Road, Gongming Town Huahong Xintong Industrial Park Guangming District 518108 Shenzhen PEOPLE'S REPUBLIC OF CHINA

General product information:

This test report is based on a TUV SUD test report Ref. No. SI1200012169-000 dated: 2012-10-14 with appended CB cert Ref. No. DE 3 -59944 dated: 2012-11-07.

This test report includes additional evaluation of the power supply to the requirements of IT power systems and an engineering evaluation of the Leakage at the output of the PSU. Additionally; this report includes an upgrade to IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013.

For continuity, data from the original TUV report is included in this report, along with the additional evaluation referenced.

The MPB125-Series are open frame AC to DC switch mode power supplies. The models can be operated with convection cooling and/or with air cooling. Maximum output power is derated at convection cooling.

Ambient temperature specification is 0 to 50 °C for full ratings and derated at 2.5 % per K from 50 °C to 70 °C ambient.

Model differences:

Model MPB125-S322 is exactly the same as MPB125-3000 except the addition of AC filter, no output #3 and use of DC harness with connector for the output.

Model output ratings:

Model	Output #1		Output #2		Output #3		Output #4	
	Vdc	A	Vdc	A	Vdc	A	Vdc	A
MPB125-S290	24	5.2	—	—	—	—	—	—
MPB125-S292	3.3	10	5	15	12	5	-12	0.5
MPB125-S295	48	2.6	—	—	—	—	—	—
MPB125-S300 ***)	3.3	13	5	10	12	2	—	—
MPB125-S304	24	5.2	—	—	—	—	—	—
MPB125-S306	12	10.5	—	—	—	—	—	—
MPB125-S322*	5	16.5	12	5	—	—	—	—
MPB125-RS299	60	2.0	12	0.5	5	0.2	—	—
MPB125-1012	12	10.5	—	—	—	—	—	—
MPB125-2003****)	3.3	30	12	0.5	—	—	—	—
MPB125-2005	5	25	12	0.5	—	—	—	—
MPB125-2012	12	10.5	12	0.5	—	—	—	—
MPB125-2015	15	8.3	12	0.5	—	—	—	—
MPB125-2024	24	5.2	12	0.5	—	—	—	—
MPB125-S319	24	5.2	12	0.5	—	—	—	—
MPB125-S323	24	5.2	12	0.5	—	—	—	—
MPB125-2048	48	2.6	12	0.5	—	—	—	—
MPB125-3000 *)	5	16.5	12	5	-12	0.5	—	—
MPB125-4250 **)	2.5	12	5	15	12	5	-12	0.5
MPB125-4350 **)	3.3	10	5	15	12	5	-12	0.5
MPB125-4350S282	3.3	11	5	4	12	1.5	—	—

*) Maximum continuous power for output #1 is 60 W with convection cooling.
**) Maximum continuous power for output #1 and #2 combined: 80 W with 5 CFM external airflow, 40 W with convection cooling.
***) Maximum continuous power for output #1 and #2 combined: 75 W with 5 CFM external airflow.
****) With external 5 CFM airflow V1 output may only operate up to 25 A, and 30 A with 10 CFM. Combined output power may not exceed 105 W with 10 CFM and 55 W with convection cooling.

Maximum continuous total output power 70 W with convection cooling, 125 W with 5 CFM external airflow for all models except MPB125-S290, which are rated 100 W, and MPB125-4350S282, which is rated 75 W, with 5 CFM external airflow and MPB125-S300, which is rated 100W, with 5 CFM external airflow.

Special Considerations

The following items are considerations that were used when evaluating these products.

All models are intended for building-in, to be soldered onto a PWB or plugged in to special end-user socket.

CONDITIONS OF ACCEPTABILITY:

When installed in the end use equipment, the following are among the consideration to be made:

1) A suitable electrical, mechanical and fire enclosure at end-use.
2) A reliable ground (Protective Earth) connection at end-use.
3) Cooling requirements must be fulfilled at end-use
4) Sustainability of fusing to be further evaluated at end use.

Abbreviations used in the report:

- normal conditions ..... N.C.
- functional insulation ..... OP
- double insulation..... DI
- between parts of opposite polarity ..... BOP
- single fault conditions ..... S.F.C
- basic insulation..... BI
- supplementary insulation..... SI
- reinforced insulation ..... RI

Indicate used abbreviations (if any): ..... None