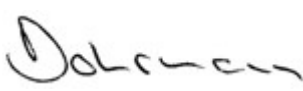



TEST REPORT IEC 62103 + EN 50178 Electronic Equipment for use in power installations																																							
Report reference No: 12TH0326-50178_1																																							
Tested by (printed name and signature): Nils Dohrmann																																							
Approved by (printed name and signature): Thomas Ruffer																																							
Date of issue: February 20, 2013																																							
Testing Laboratory Name: Bureau Veritas Consumer Products Services Germany GmbH																																							
Address: Businesspark A96, 86842 Tuerkheim, Germany																																							
Testing location: Bureau Veritas Consumer Products Services Germany GmbH																																							
Address: Businesspark A96, 86842 Tuerkheim, Germany																																							
Applicant's Name: Convertec Limited																																							
Address: Whitemill Industrial Estate, Wexford, Republic of Ireland																																							
Test specification																																							
Standard.....: IEC 62103 – Ed. 1.0, EN 50178:1997																																							
Test procedure: CE-mark verification, This report is a risk assignment and not a complete investigation of the standard. The report is based on the test results recorded in the report no. 12TH0326-60950_x (designated throughout this report as “main-report”)																																							
Non-standard test method: Verification for CE, partial testing (excl. marking & manual)																																							
Test Report Form No.: IEC62103-A1																																							
TRF originator.: INNOVA																																							
Master TRF: dated 2005-02																																							
Copyright © 2005 INNOVA Product Service GmbH																																							
Test item description:																																							
Trademark: TRACO POWER or CONVERTEC POWER ELECTRONICS																																							
Manufacturer: Convertec Limited																																							
<table style="width: 100%; border: none;"> <tr> <td style="width: 40%;">Model and/or type reference</td> <td style="width: 20%; text-align: center;">TRACOPOWER</td> <td style="width: 20%; text-align: center;">CONVERTEC POWER ELECTRONICS</td> <td style="width: 20%; text-align: center;">Convertec Drawing No.</td> </tr> <tr> <td></td> <td style="text-align: center;">TIW 12-124</td> <td style="text-align: center;">INWA 024.005</td> <td style="text-align: center;">012UWA184</td> </tr> <tr> <td></td> <td style="text-align: center;">TIW 12-115</td> <td style="text-align: center;">INWA 015.008</td> <td style="text-align: center;">012UWA183</td> </tr> <tr> <td></td> <td style="text-align: center;">TIW 12-112</td> <td style="text-align: center;">INWA 012.010</td> <td style="text-align: center;">012UWA182</td> </tr> <tr> <td></td> <td style="text-align: center;">TIW 06-103</td> <td style="text-align: center;">INWA 003.012</td> <td style="text-align: center;">006UWA180</td> </tr> <tr> <td></td> <td style="text-align: center;">TIW 06-105</td> <td style="text-align: center;">INWA 005.010</td> <td style="text-align: center;">006UWA181</td> </tr> <tr> <td></td> <td style="text-align: center;">TIW 06-106</td> <td style="text-align: center;">INWA 006.010</td> <td style="text-align: center;">006UWA189</td> </tr> <tr> <td></td> <td style="text-align: center;">TIW 24-112</td> <td style="text-align: center;">INWA 012.020</td> <td style="text-align: center;">024UWA182</td> </tr> <tr> <td></td> <td style="text-align: center;">TIW 24-124</td> <td style="text-align: center;">INWA 024.010</td> <td style="text-align: center;">024UWA184</td> </tr> </table>				Model and/or type reference	TRACOPOWER	CONVERTEC POWER ELECTRONICS	Convertec Drawing No.		TIW 12-124	INWA 024.005	012UWA184		TIW 12-115	INWA 015.008	012UWA183		TIW 12-112	INWA 012.010	012UWA182		TIW 06-103	INWA 003.012	006UWA180		TIW 06-105	INWA 005.010	006UWA181		TIW 06-106	INWA 006.010	006UWA189		TIW 24-112	INWA 012.020	024UWA182		TIW 24-124	INWA 024.010	024UWA184
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Serial number: Prototype																																							
Ratings: (see page 2)																																							

TIW 12-124: Input: 100-240Vac / 140-340Vdc
0,33-0,14A
50/60Hz
Output: 24Vdc / 0,5A / 12W

TIW 12-115: Input: 100-240Vac / 140-340Vdc
0,19-0,14A
50/60Hz
Output: 15Vdc / 0,8A / 12W

TIW 12-112: Input: 100-240Vac / 140-340Vdc
0,23-0,15A
50/60Hz
Output: 12Vdc / 1,0A / 12W

TIW 06-103: Input: 100-240Vac / 140-340Vdc
0,10-0,05A
50/60Hz
Output: 3,3Vdc / 1,2A / 4W

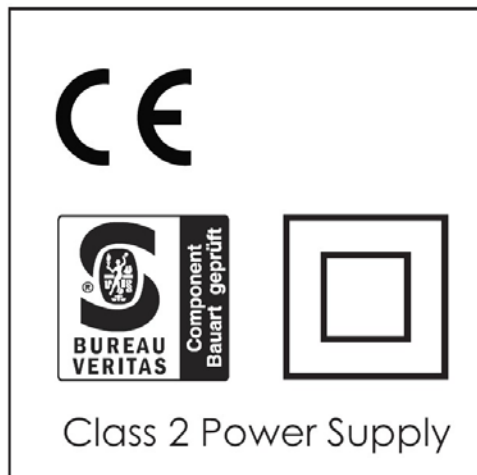
TIW 06-105: Input: 100-240Vac / 140-340Vdc
0,13-0,07A
50/60Hz
Output: 05Vdc / 1,0A / 5W

TIW 06-106: Input: 100-240Vac / 140-340Vdc
0,15-0,08A
50/60Hz
Output: 6Vdc / 1,0A / 6W

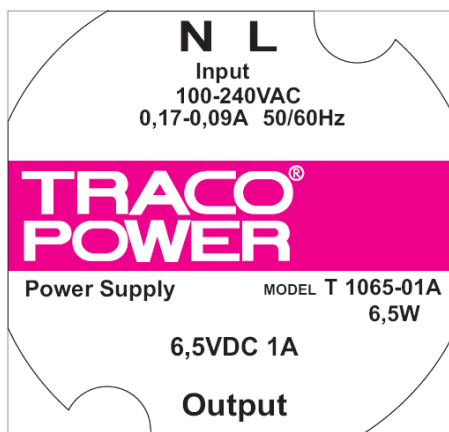
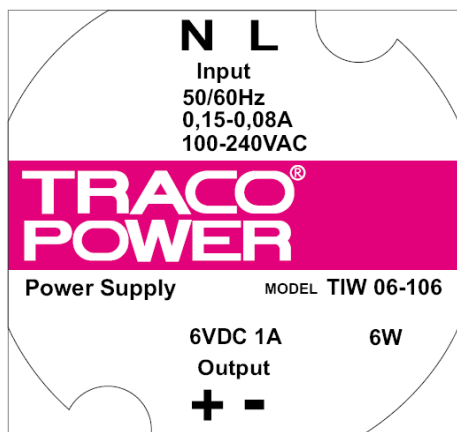
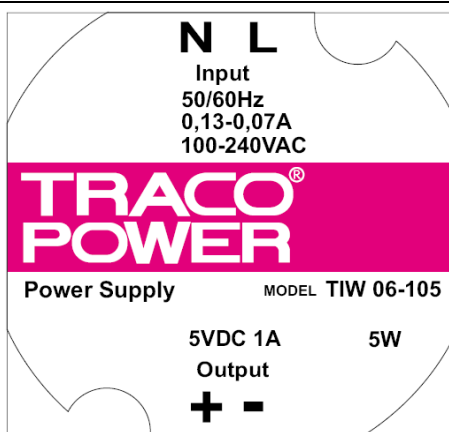
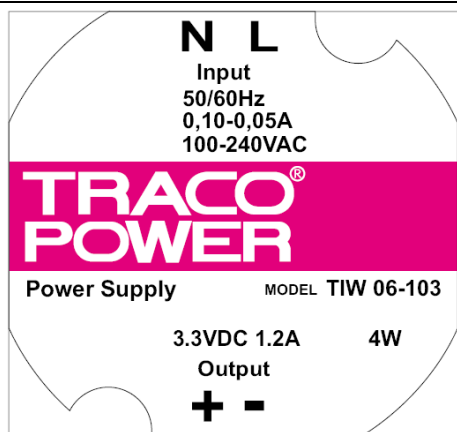
TIW 24-112 (024UWA182):
Input: 100-240Vac; 0,42-0,32A; 50/60Hz
Output: 12Vdc / 2,0A / 24W

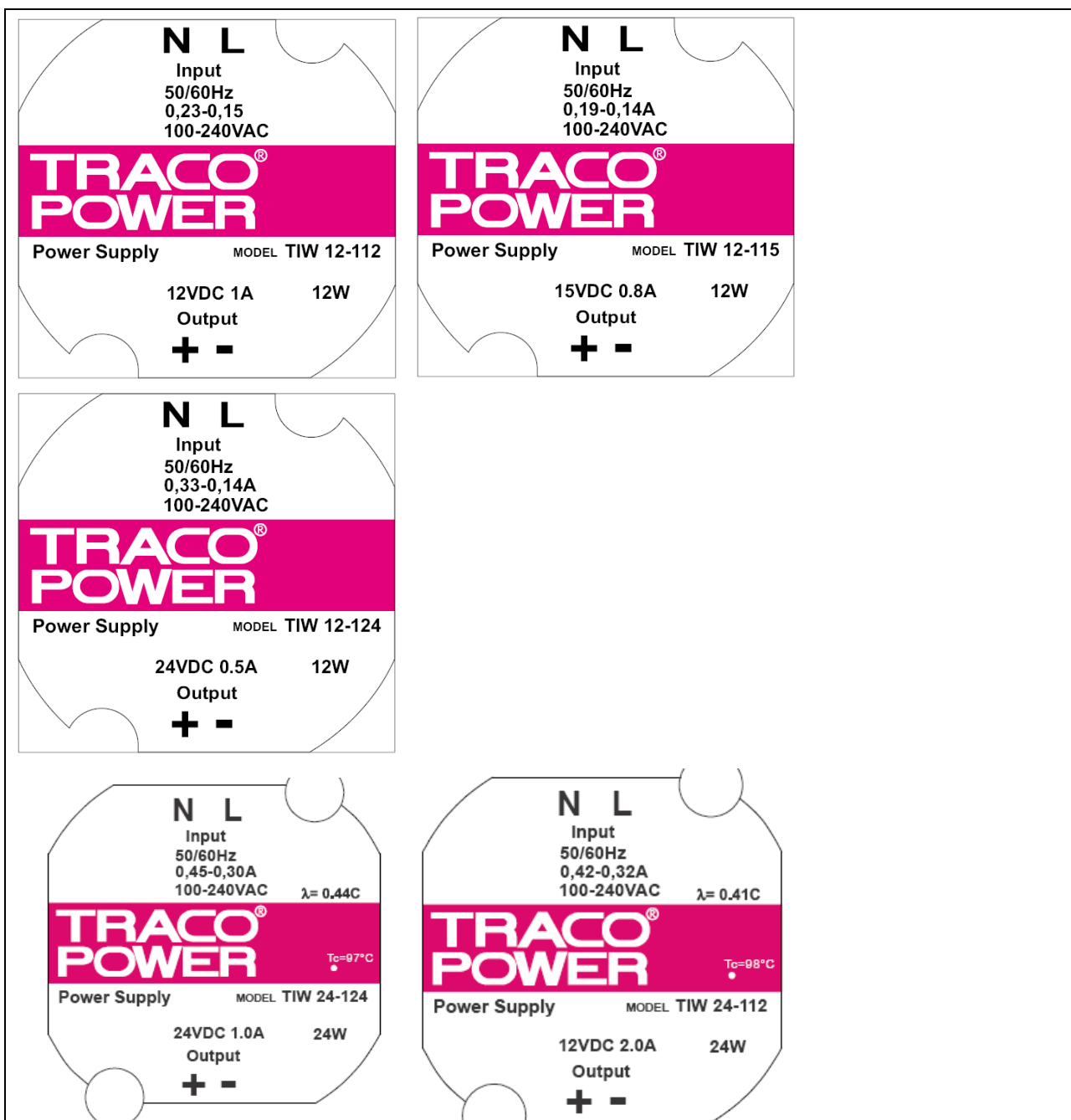
TIW 24-124 (024UWA184):
Input: 100-240Vac; 0,45-0,30A; 50/60Hz
Output: 24Vdc / 1,0A / 24W

Copy of marking plate



This label is applied to all models.





Partial testing, the following requirements were not verified:

- EMC
- Life time
- 5.2.18.5 partial discharge test
- 6.2.1 mechanical shock
- 6.2.2 mechanical vibration

The products were tested and comply with all electrical safety requirements, excl. above. Additional markings and warnings are required for full compliance.

History Sheet:

ND	30. March 2009	Initial report was written	Rev. 0
ND	20. Feb. 2013	Update: new models added The test report was modified as following: <ul style="list-style-type: none">- several formal corrections, no safety relevance- Testing Laboratory Name updated (formerly: Bureau Veritas E&E Product Services GmbH)- Model deleted throughout the report: T 1065-01A- Models added throughout the report: TIW 24-112, TIW 24-124- Approval label (for all models) updated: BG-mark was added	Rev. 1

Address of the manufacturer sites:

Convertec Limited
Whitemill Industrial Estate, Wexford, Republic of Ireland

Particulars: test item vs. test requirements

Equipment mobility : Fixed

Operating condition : Continuous

Mains supply tolerance (%) : +10% / -10% (90-264Vac)

Tested for IT power systems : N/A

IT testing, phase-phase voltage (V) : N/A

Class of equipment : Class II

Mass of equipment (kg) : models TIW 24-112 and TIW 24- 124: 0,16
all other models: 0,08

Protection against ingress of water : IP67

Test case verdicts

Test case does not apply to the test object : N/A

Test item does meet the requirement : P(ass)

Test item does not meet the requirement .. : F(ail)

Testing

Date of receipt of test item : Rev. 0: 20. January 2009
Rev. 1: refer to main report

Date(s) of performance of test : Rev. 0: 20. January 2009 - 10. March 2009
Rev. 1: refer to main report

General remarks

"This report is not valid as a CB Test Report unless appended by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IEC 60384-14".

The test result presented in this report relate only to the object(s) tested.
This report shall not be reproduced, except in full, without the written approval of the applicant.

"(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.

Full report available for notified bodies on request