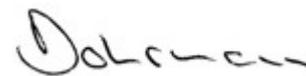


TEST REPORT
IEC 62103 + EN 50178
Electronic Equipment for use in power installations

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

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Test item description

Trademark: TRACO POWER or CONVERTEC POWER ELECTRONICS

Manufacturer: Convertec Limited

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

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

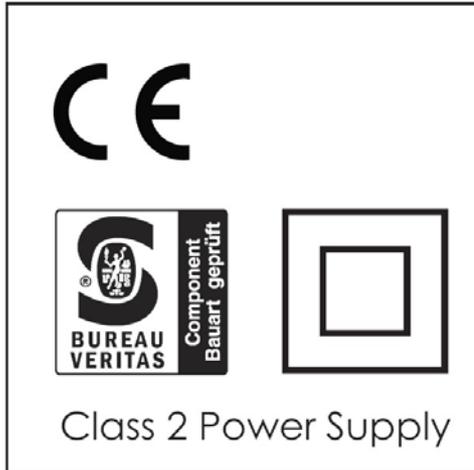
TIW 06-105: Input: 100-240Vac / 140-340Vdc
0,13-0,07A
50/60Hz
Output: 05Vdc / 1,0A / 5W

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

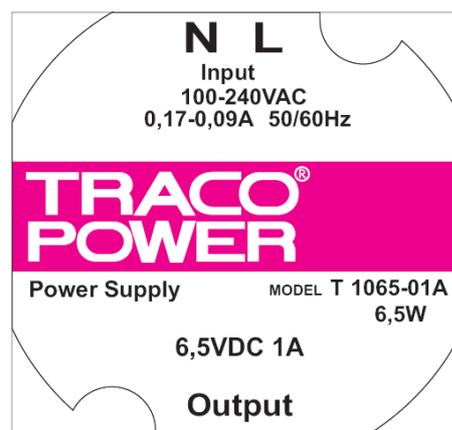
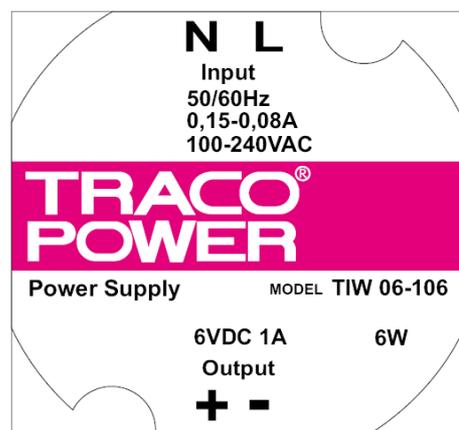
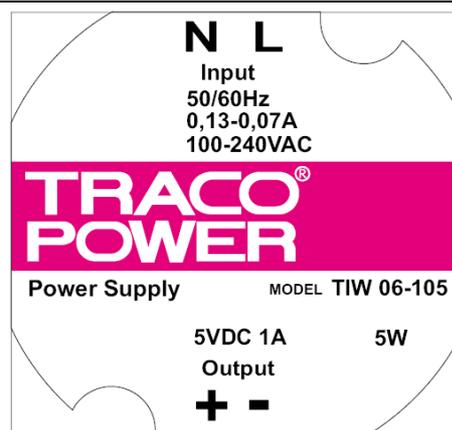
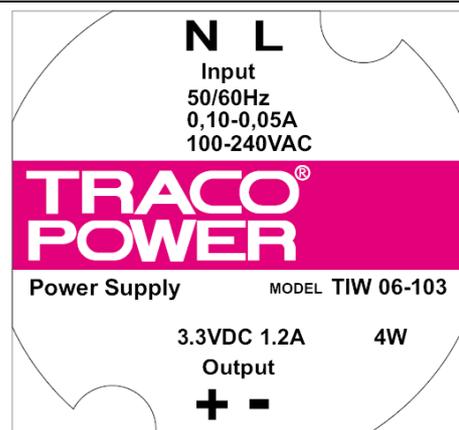
TIW 24-112 (024UWA182):
Input: 100-240Vac; 0,42-0,32A; 50/60Hz
Output: 12Vdc / 2,0A / 24W

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.



<p>N L Input 50/60Hz 0,23-0,15 100-240VAC</p> <p>TRACO[®] POWER</p> <p>Power Supply MODEL TIW 12-112</p> <p>12VDC 1A 12W Output + -</p>	<p>N L Input 50/60Hz 0,19-0,14A 100-240VAC</p> <p>TRACO[®] POWER</p> <p>Power Supply MODEL TIW 12-115</p> <p>15VDC 0.8A 12W Output + -</p>
<p>N L Input 50/60Hz 0,33-0,14A 100-240VAC</p> <p>TRACO[®] POWER</p> <p>Power Supply MODEL TIW 12-124</p> <p>24VDC 0.5A 12W Output + -</p>	
<p>N L Input 50/60Hz 0,45-0,30A 100-240VAC $\lambda = 0,44C$</p> <p>TRACO[®] POWER $T_c = 97^{\circ}C$</p> <p>Power Supply MODEL TIW 24-124</p> <p>24VDC 1.0A 24W Output + -</p>	<p>N L Input 50/60Hz 0,42-0,32A 100-240VAC $\lambda = 0,41C$</p> <p>TRACO[®] POWER $T_c = 98^{\circ}C$</p> <p>Power Supply MODEL TIW 24-112</p> <p>12VDC 2.0A 24W Output + -</p>

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: - 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 60384-14:2001".

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