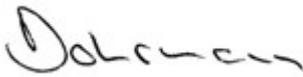




TEST REPORT IEC/EN 61558-2-16 / IEC/EN 61558-2-8 Safety of power transformers, power supplies, reactors and similar products for supply voltages up to 1100 V	
Report Reference No.	: 12TH0326-61558_0
Date of issue	: March 20, 2013
Tested by (printed name and signature)	: Nils Dohrmann 
Approved by (printed name and signature)	: Thomas Ruffer 
Total number of pages.....	: 91
Testing Laboratory	: Bureau Veritas Consumer Products Services Germany GmbH
Address	: Businesspark A96, 86842 Türkheim, Germany
Applicant' s name	: Convertec Limited
Address	: Whitemill Industrial Estate, Wexford, Republic of Ireland
Test specification:	
Standard	: IEC 61558-2-16:2009 (1 st Ed.) and IEC 61558-2-8:2010 (2 nd Ed.) used in conjunction with IEC 61558-1 (2 nd Ed.) + A1:2009 EN 61558-2-16:2009 and EN 61558-2-8:2010 used in conjunction EN 61558-1:2005 + A1:2009
Test procedure	: Verification for CE, partial testing (excl. marking & manual)
Non-standard test method	: This report is valid in conjunction with the test report 12TH0326-60950_x only; designated as 'main report' within this document. The products were tested and comply with all electrical safety requirements. Additional markings and warnings are required for full compliance.
Test Report Form No.	: IEC61558_2_16A
Test Report Form(s) Originator.	: VDE Testing and Certification Institute
Master TRF	: Dated 2009-10
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If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.	
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	

Test item description.....: Power Supply (built-in)
Trade Mark.....: TRACOPOWER or CONVERTEC POWER ELECTRONICS
Manufacturer.....: Convertec Limited
Address.....: Whitemill Industrial Estate, Wexford, Republic of Ireland
Model/Type reference..... :

TRACOPOWER	CONVERTEC POWER ELECTRONICS
TIW 12-124	INWA 024.005
TIW 12-115	INWA 015.008
TIW 12-112	INWA 012.010
TIW 06-103	INWA 003.012
TIW 06-105	INWA 005.010
TIW 06-106	INWA 006.010
TIW 24-112	INWA 012.020
TIW 24-124	INWA 024.010

** Each model can alternatively be marked with a suffix „xyyyy“ for non-safety relevant changes. No impact on safety.

Rating(s) : TIW 12-124 or INWA 024.005:
 Input: 100-240Vac; 0,33-0,14A; 50/60Hz
 Output: 24Vdc / 0,5A / 12W

TIW 12-115 or INWA 015.008:
 Input: 100-240Vac; 0,19-0,14A; 50/60Hz
 Output: 15Vdc / 0,8A / 12W

TIW 12-112 or INWA 012.010:
 Input: 100-240Vac; 0,23-0,15A; 50/60Hz
 Output: 12Vdc / 1,0A / 12W

TIW 06-103 or INWA 003.012:
 Input: 100-240Vac; 0,10-0,05A; 50/60Hz
 Output: 3,3Vdc / 1,2A / 4W

TIW 06-105 or INWA 005.010:
 Input: 100-240Vac; 0,13-0,07A; 50/60Hz
 Output: 5Vdc / 1,0A / 5W

TIW 06-106 or INWA 006.010:
 Input: 100-240Vac; 0,15-0,08A; 50/60Hz
 Output: 6Vdc / 1,0A / 6W

TIW 24-112 or INWA 012.020:
 Input: 100-240Vac; 0,42-0,32A; 50/60Hz
 Output: 12Vdc / 2,0A / 24W

TIW 24-124 or INWA 024.010:
 Input: 100-240Vac; 0,45-0,30A; 50/60Hz
 Output: 24Vdc / 1,0A / 24W

Copy of marking plate

N L
Input
50/60Hz
0,23-0,15
100-240VAC

**TRACO
POWER**

Power Supply MODEL TIW 12-112

12VDC 1A 12W
Output
+ -

N L
Input
50/60Hz
0,19-0,14A
100-240VAC

**TRACO
POWER**

Power Supply MODEL TIW 12-115

15VDC 0.8A 12W
Output
+ -

N L
Input
50/60Hz
0,33-0,14A
100-240VAC

**TRACO
POWER**

Power Supply MODEL TIW 12-124

24VDC 0.5A 12W
Output
+ -

N L
Input
50/60Hz
0,10-0,05A
100-240VAC

**TRACO
POWER**

Power Supply MODEL TIW 06-103

3.3VDC 1.2A 4W
Output
+ -

N L
Input
50/60Hz
0,13-0,07A
100-240VAC

**TRACO
POWER**

Power Supply MODEL TIW 06-105

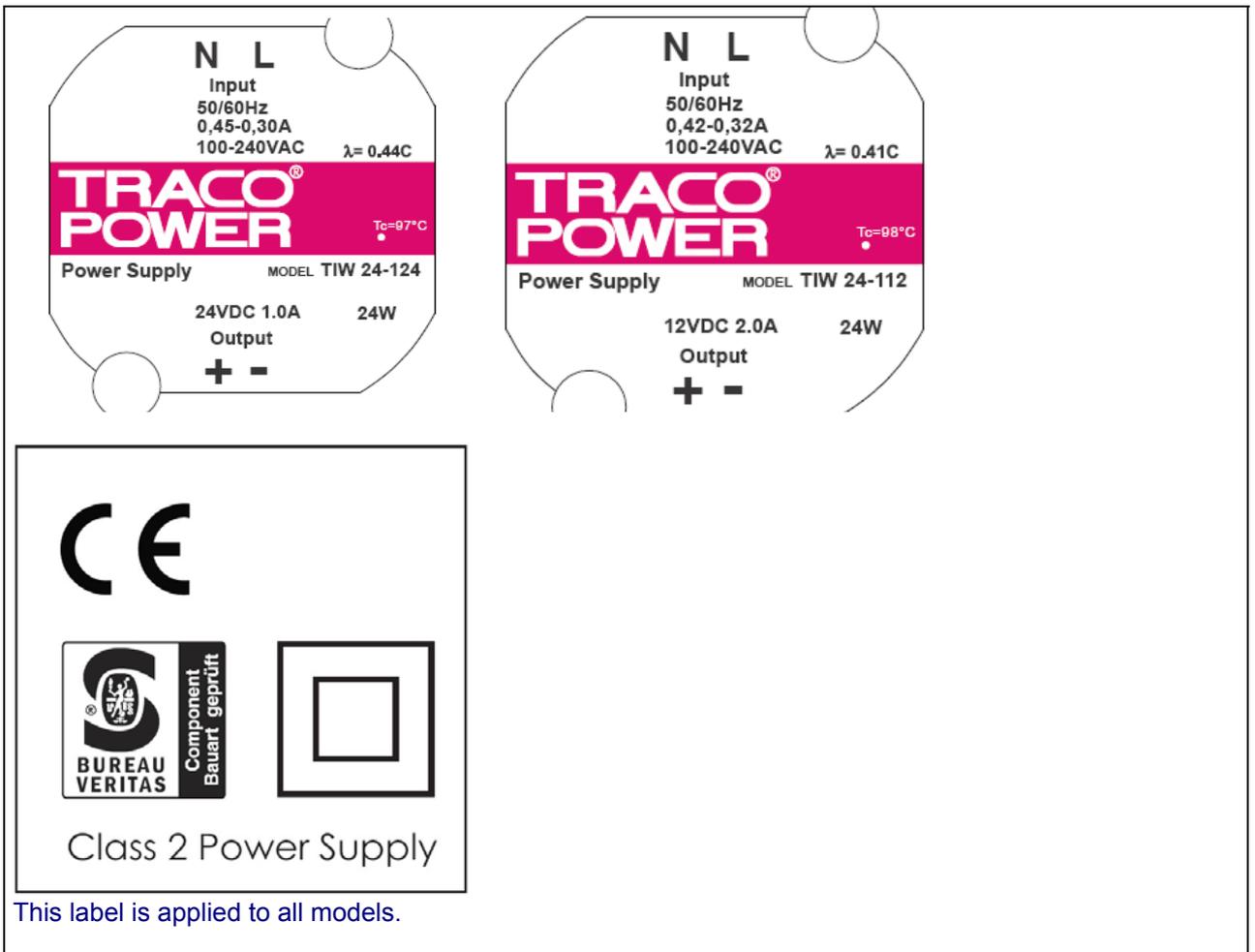
5VDC 1A 5W
Output
+ -

N L
Input
50/60Hz
0,15-0,08A
100-240VAC

**TRACO
POWER**

Power Supply MODEL TIW 06-106

6VDC 1A 6W
Output
+ -



Test item particulars	
Type of transformers	Switch mode power supply
Application	fixed (built-in)
Protection against electric shock	Class II
Short-circuit protection	
inherently short-circuit proof	No
non-inherently short-circuit proof	Yes
non short-circuit proof	No
fail safe	Yes
Protection index	IP67
Other characteristics	---
Rated ambient temperature t_a (°C)	50°C
Short-circuit voltage (V)	N/A
Possible test case verdicts:	
- test case does not apply to the test object	N/A (not applicable)
- test object does meet the requirement	P (Pass)
- test object does not meet the requirement	F (Fail)
Testing	
Date of receipt of test item	(see main report)
Date (s) of performance of tests	(see main report)
General remarks:	
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 testing laboratory. "(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.	
General product information:	
Power supply for built-in use with safety isolation transformer This test report is a supplement to the main report 12TH0326-60950_0. Full technical documentation, pictures and test results are stored in this document.	
	

Full report available for notified bodies on request