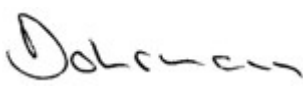





TEST REPORT IEC/EN 61558-2-16 / IEC/EN 61558-2-8 Safety of power transformers, power supplies, reactors and similar products for supply voltages up to 1100 V	
Report Reference No. : 12TH0326-61558_0 Date of issue : March 20, 2013 Tested by (printed name and signature) : Nils Dohrmann  Approved by (printed 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 Copyright © 2009 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copy-right owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. 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 „xxyyyy“ 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

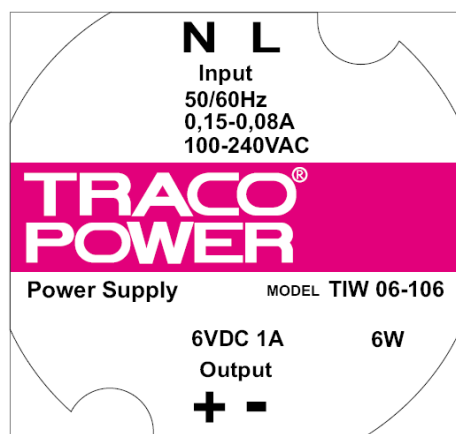
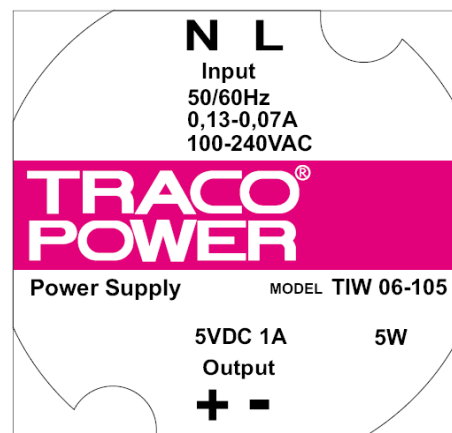
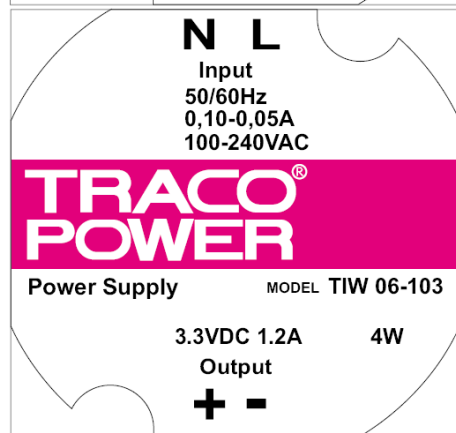
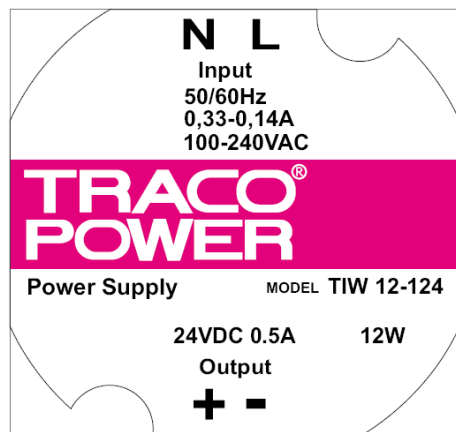
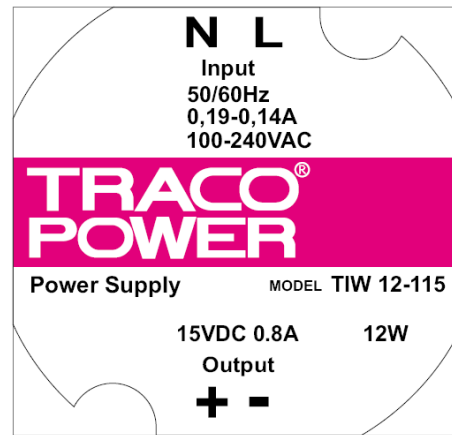
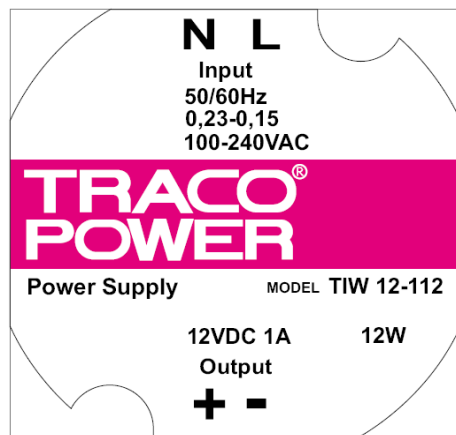
TIW 06-105 or INWA 005.010:
 Input: 100-240Vac; 0,13-0,07A; 50/60Hz
 Output: 5Vdc / 1,0A / 5W

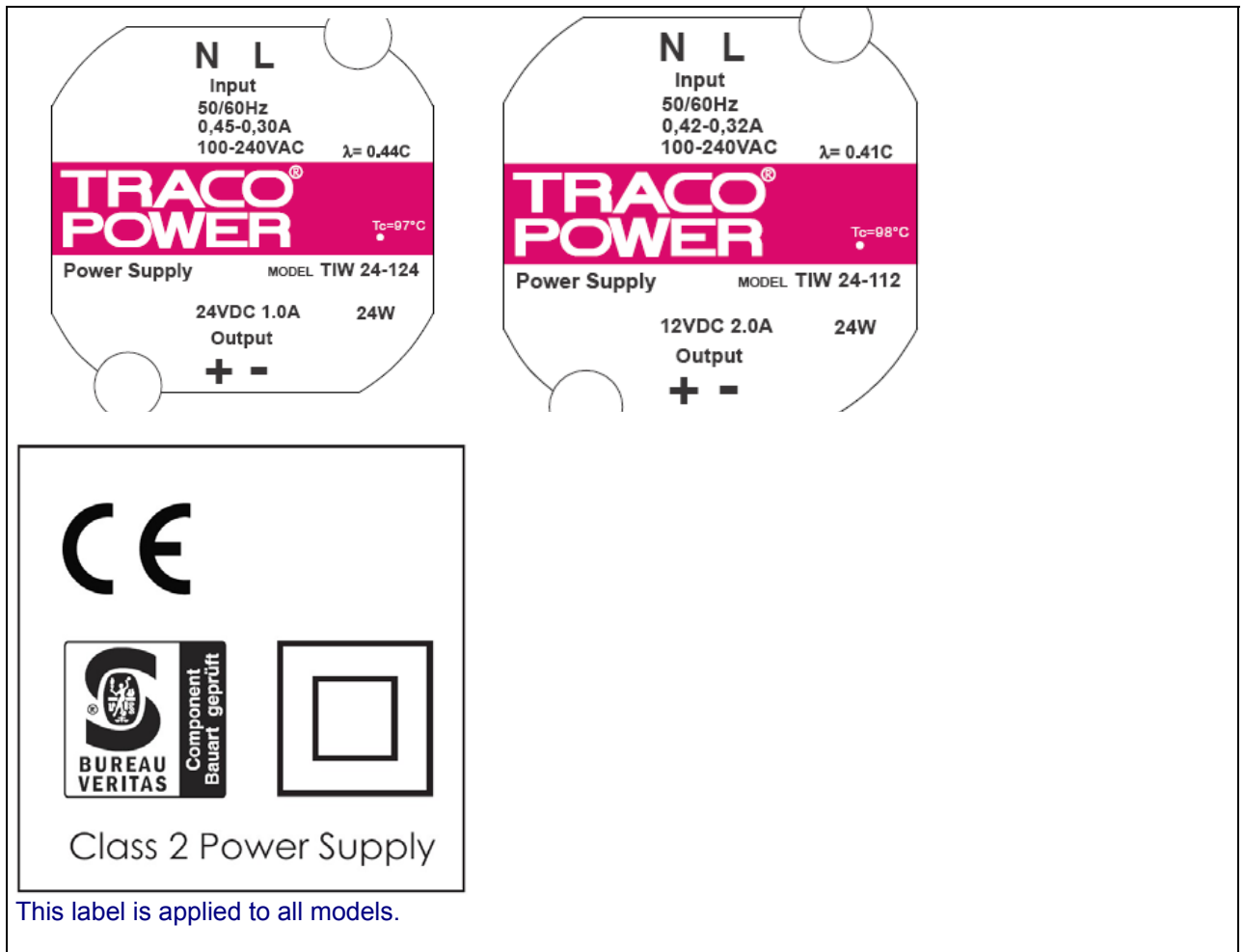
TIW 06-106 or INWA 006.010:
 Input: 100-240Vac; 0,15-0,08A; 50/60Hz
 Output: 6Vdc / 1,0A / 6W

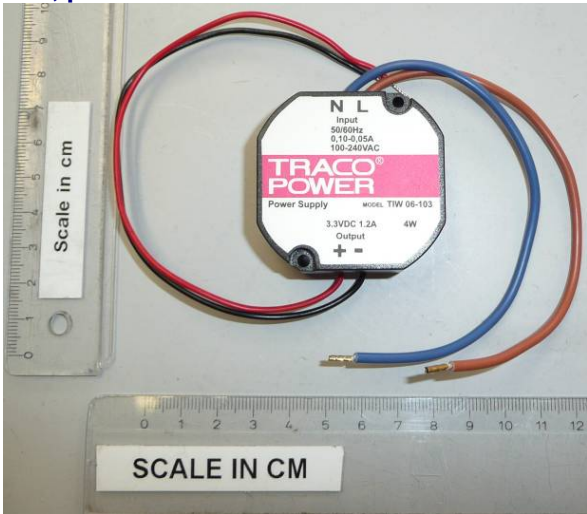
TIW 24-112 or INWA 012.020:
 Input: 100-240Vac; 0,42-0,32A; 50/60Hz
 Output: 12Vdc / 2,0A / 24W

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





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:	
<p>The test results presented in this report relate only to the object tested.</p> <p>This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.</p> <p>"(See Enclosure #)" refers to additional information appended to the report.</p> <p>"(See appended table)" refers to a table appended to the report.</p> <p>Throughout this report a comma (point) is used as the decimal separator.</p>	
General product information:	
<p>Power supply for built-in use with safety isolation transformer</p> <p>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.</p>	
	

Full report available for notified bodies on request