

Certificate of Compliance

Certificate: 1918381

Master Contract: 226037

Project: 2100728


Date Issued: December 5, 2008

Issued to: TRACO Electronic AG
Jenatschstrasse 1
Zurich, Zurich 8027
Switzerland
Attention:

*The products listed below are eligible to bear the CSA Mark shown
with adjacent indicators 'C' and 'US'*



Issued by: Jupiter Huang


Authorized by: Hans Ran
Area Director, Asia

PRODUCTS

CLASS 5311 07 - POWER SUPPLIES - Component Type (CSA 60950-1-03)

CLASS 5311 87 - POWER SUPPLIES - Component Type - Certified to US Stds. (CSA 60950-1-03/UL 60950-1, First Edition, NRTL Program)

• DC to DC Converters*, PCB Mount, Models:

- THB 3-05xx: Input: 4,5 – 9,0Vdc / 820mA, Output: See 'xx' values below.
- THB 3-12xx: Input: 9 – 18Vdc / 320mA, Output: See 'xx' values below.
- THB 3-24xx: Input: 18 – 36Vdc / 155mA, Output: See 'xx' values below.
- THB 3-48xx: Input: 36 – 75Vdc / 80mA, Output: See 'xx' values below.

- TEN 3-24xxWI: Input: 9 – 36Vdc / 150mA, Output: See 'xx' values below.
- TEN 3-48xxWI: Input: 18 – 75Vdc / 75mA, Output: See 'xx' values below.
- TES 5-12xx: Input: 9 – 18Vdc / 500mA, Output: See 'xx' values below.
- TES 5-24xx: Input: 18 – 36Vdc / 250mA, Output: See 'xx' values below.
- TES 5-48xx: Input: 36 – 75Vdc / 125mA, Output: See 'xx' values below.

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Series	xx value	Output Rating
THB 3	11	5Vdc / 600mA
	12	12Vdc / 250mA
	15	24Vdc / 125mA
	22	$\pm 12\text{Vdc} / \pm 125\text{mA}$
	23	$\pm 15\text{Vdc} / \pm 100\text{mA}$

Series	xx value	Output Rating
TEN 3 WI	10	3,3Vdc / 750mA
	11	5Vdc / 600mA
	12	12Vdc / 250mA
	13	15Vdc / 200mA
	22	$\pm 12\text{Vdc} / \pm 125\text{mA}$
	23	$\pm 15\text{Vdc} / \pm 100\text{mA}$

Series	xx value	Output Rating
TES 5	10	3,3Vdc / 1200mA
	11	5Vdc / 1000mA
	12	12Vdc / 420mA
	13	15Vdc / 335mA
	21	$\pm 5\text{Vdc} / \pm 500\text{mA}$
	22	$\pm 12\text{Vdc} / \pm 210\text{mA}$
	23	$\pm 15\text{Vdc} / \pm 165\text{mA}$

***Notes:**

- Units were evaluated as components where the suitability of the combination with the host equipment shall be re-evaluated.
- The equipment has been evaluated for use in a Pollution Degree 1 or 2 and over voltage category II environment.
- A suitable Electrical and Fire enclosure shall be provided.
- The product is specified for maximum ambient of 70°C
- Dielectric insulation for TEN 3WI and TES 5 (Basic between Input-Output): 1500Vac.
- Dielectric insulation for THB 3 (Reinforced between Input-Output): 4000Vac.

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 60950-1-03

- Information Technology Equipment – Safety – Part 1: General requirements.

UL 60950-1 (1st Edition)

- Information Technology Equipment – Safety – Part 1: General requirements.

Supplement to Certificate of Compliance

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*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
2100728	December 5, 2008	Include alternative material to models TES 5 and TEN 3-WI series
1918381	June 27, 2007	Original Certification