

CERTIFICATE OF COMPLIANCE

Certificate Number E188913
Report Reference E188913-20051104
Issue Date 2021-March-08

Issued to: TRACO ELECTRONIC AG
SIHLBRUGGSTRASSE 111
CH-6340 BAAR, SWITZERLAND

**This certificate confirms that
representative samples of**

POWER SUPPLIES, INFORMATION TECHNOLOGY
EQUIPMENT INCLUDING ELECTRICAL BUSINESS
EQUIPMENT - COMPONENT

See Addendum Page

Have been investigated by UL in accordance with the
component requirements in the Standard(s) indicated on
this Certificate. UL Recognized components are incomplete
in certain constructional features or restricted in
performance capabilities and are intended for installation in
complete equipment submitted for investigation to UL LLC.


Standard(s) for Safety: UL 60950-1 & CSA C22.2 No. 60950-1-07 - Information
Technology Equipment - Safety - Part 1: General
Requirements

Additional Information: See the UL Online Certifications Directory at
<https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Recognized Component Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified
and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.



Bruce Mahrenholz, Director North American Certification Program
UL LLC

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This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

DC to DC Converter, Models TON 15-2410z1z1z1z1z1,
TON 15-2411z1z1z1z1z1, TON 15-2412z1z1z1z1z1, TON 15-2413z1z1z1z1z1,
TON 15-4810z1z1z1z1z1, TON 15-4811z1z1z1z1z1, TON 15-4812z1z1z1z1z1,
TON 15-4813z1z1z1z1z1, TMR 0510, TMR 0511, TMR 0514, TMR 0512, TMR 0513, TMR 0521,
TMR 0522, TMR 0523, TMR 1210, TMR 1211, TMR 1214, TMR 1212, TMR 1213, TMR 1221,
TMR 1222, TMR 1223, TMR 2410, TMR 2411, TMR 2414, TMR 2412, TMR 2413, TMR 2421,
TMR 2422, TMR 2423, TMR 4810, TMR 4811, TMR 4814, TMR 4812, TMR 4813, TMR 4821,
TMR 4822, TMR 4823, TEN 40-2410WI, TEN 40-2411WI, TEN 40-2412WI, TEN 40-2413WI,
TEN 40-2422WI, TEN 40-2423WI, TEN 40-4810WI, TEN 40-4811WI, TEN 40-4812WI,
TEN 40-4813WI, TEN 40-4822WI, TEN 40-4823WI, TEN 60-2410, TEN 60-2411, TEN 60-2412,
TEN 60-2413, TEN 60-4810, TEN 60-4811, TEN 60-4812, TEN 60-4813, TMR 3-0510-z1z1z1z1z1,
TMR 3-0511-z1z1z1z1z1, TMR 3-0509-z1z1z1z1z1, TMR 3-0512-z1z1z1z1z1,
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TEN 20-2412WIN, TEN 20-2413WIN, TEN 20-2421WIN, TEN 20-2422WIN, TEN 20-2423WIN,
TEN 20-4810WIN, TEN 20-4811WIN, TEN 20-4812WIN, TEN 20-4813WIN, TEN 20-4821WIN,
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B. Mahrenholz

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TDR 2-4819Wlz1z1z1z1z1, TDR 2-4812Wlz1z1z1z1z1, TDR 2-4813Wlz1z1z1z1z1, TDR 2-4821Wlz1z1z1z1z1, TDR 2-4822Wlz1z1z1z1z1, TDR 2-4823Wlz1z1z1z1z1, TDR 2-1211HIWlz1z1z1z1z1, TDR 2-1219HIWlz1z1z1z1z1, TDR 2-1212HIWlz1z1z1z1z1, TDR 2-1213HIWlz1z1z1z1z1, TDR 2-1221HIWlz1z1z1z1z1, TDR 2-1222HIWlz1z1z1z1z1, TDR 2-1223HIWlz1z1z1z1z1, TDR 2-2410HIWlz1z1z1z1z1, TDR 2-2411HIWlz1z1z1z1z1, TDR 2-2419HIWlz1z1z1z1z1, TDR 2-2412HIWlz1z1z1z1z1, TDR 2-2413HIWlz1z1z1z1z1, TDR 2-2421HIWlz1z1z1z1z1, TDR 2-2422HIWlz1z1z1z1z1, TDR 2-2423HIWlz1z1z1z1z1, TDR 2-4810HIWlz1z1z1z1z1, TDR 2-4811HIWlz1z1z1z1z1, TDR 2-4819HIWlz1z1z1z1z1, TDR 2-4812HIWlz1z1z1z1z1, TDR 2-4813HIWlz1z1z1z1z1, TDR 2-4821HIWlz1z1z1z1z1, TDR 2-4822HIWlz1z1z1z1z1, TDR 2-4823HIWlz1z1z1z1z1, TDR 2-0511z1z1z1z1z1, TDR 2-0519z1z1z1z1z1, TDR 2-0512z1z1z1z1z1, TDR 2-0513z1z1z1z1z1, TDR 2-0521z1z1z1z1z1, TDR 2-0522z1z1z1z1z1, TDR 2-0523z1z1z1z1z1, TDR 2-1210z1z1z1z1z1, TDR 2-1211z1z1z1z1z1, TDR 2-1219z1z1z1z1z1, TDR 2-1212z1z1z1z1z1, TDR 2-1213z1z1z1z1z1, TDR 2-1221z1z1z1z1z1, TDR 2-1222z1z1z1z1z1, TDR 2-1223z1z1z1z1z1, TDR 2-2410z1z1z1z1z1, TDR 2-2411z1z1z1z1z1, TDR 2-2419z1z1z1z1z1, TDR 2-2412z1z1z1z1z1, TDR 2-2413z1z1z1z1z1, TDR 2-2421z1z1z1z1z1, TDR 2-2422z1z1z1z1z1, TDR 2-2423z1z1z1z1z1, TDR 2-4810z1z1z1z1z1, TDR 2-4811z1z1z1z1z1, TDR 2-4819z1z1z1z1z1, TDR 2-4812z1z1z1z1z1, TDR 2-4813z1z1z1z1z1, TDR 2-4821z1z1z1z1z1, TDR 2-4822z1z1z1z1z1, TDR 2-4823z1z1z1z1z1, TDR 2-0511Hz1z1z1z1z1, TDR 2-0519Hz1z1z1z1z1, TDR 2-0512Hz1z1z1z1z1, TDR 2-0513Hz1z1z1z1z1, TDR 2-0521Hz1z1z1z1z1, TDR 2-0522Hz1z1z1z1z1, TDR 2-0523Hz1z1z1z1z1, TDR 2-1210Hz1z1z1z1z1, TDR 2-1211Hz1z1z1z1z1, TDR 2-1219Hz1z1z1z1z1, TDR 2-1212Hz1z1z1z1z1, TDR 2-1213Hz1z1z1z1z1, TDR 2-1221Hz1z1z1z1z1, TDR 2-1222Hz1z1z1z1z1, TDR 2-1223Hz1z1z1z1z1, TDR 2-2410Hz1z1z1z1z1, TDR 2-2411Hz1z1z1z1z1, TDR 2-2419Hz1z1z1z1z1, TDR 2-2412Hz1z1z1z1z1, TDR 2-2413Hz1z1z1z1z1, TDR 2-2421Hz1z1z1z1z1, TDR 2-2422Hz1z1z1z1z1, TDR 2-2423Hz1z1z1z1z1, TDR 2-4810Hz1z1z1z1z1, TDR 2-4811Hz1z1z1z1z1, TDR 2-4819Hz1z1z1z1z1, TDR 2-4812Hz1z1z1z1z1, TDR 2-4813Hz1z1z1z1z1, TDR 2-4821Hz1z1z1z1z1, TDR 2-4822Hz1z1z1z1z1, TDR 2-4823Hz1z1z1z1z1, TDR 2-1210WISMz1z1z1z1z1, TDR 2-1211WISMz1z1z1z1z1, TDR 2-1219WISMz1z1z1z1z1, TDR 2-1212WISMz1z1z1z1z1, TDR 2-1213WISMz1z1z1z1z1, TDR 2-1221WISMz1z1z1z1z1, TDR 2-1222WISMz1z1z1z1z1, TDR 2-1223WISMz1z1z1z1z1, TDR 2-2410WISMz1z1z1z1z1, TDR 2-2411WISMz1z1z1z1z1, TDR 2-2419WISMz1z1z1z1z1, TDR 2-2424WISMz1z1z1z1z1, TDR 2-2413WISMz1z1z1z1z1, TDR 2-2421WISMz1z1z1z1z1, TDR 2-2422WISMz1z1z1z1z1, TDR 2-2423WISMz1z1z1z1z1, TDR 2-4810WISMz1z1z1z1z1, TDR 2-4811WISMz1z1z1z1z1, TDR 2-4819WISMz1z1z1z1z1, TDR 2-4812WISMz1z1z1z1z1, TDR 2-4813WISMz1z1z1z1z1, TDR 2-4821WISMz1z1z1z1z1, TDR 2-4822WISMz1z1z1z1z1, TDR 2-4823WISMz1z1z1z1z1, TDR 2-1211HIWISMz1z1z1z1z1, TDR 2-1209HIWISMz1z1z1z1z1, TDR 2-1212HIWISMz1z1z1z1z1, TDR 2-1213HIWISMz1z1z1z1z1, TDR 2-1221HIWISMz1z1z1z1z1, TDR 2-1222HIWISMz1z1z1z1z1, TDR 2-1223HIWISMz1z1z1z1z1, TDR 2-2410HIWISMz1z1z1z1z1, TDR 2-2411HIWISMz1z1z1z1z1, TDR 2-2409HIWISMz1z1z1z1z1, TDR 2-2412HIWISMz1z1z1z1z1, TDR 2-2413HIWISMz1z1z1z1z1, TDR 2-2421HIWISMz1z1z1z1z1, TDR 2-2422HIWISMz1z1z1z1z1, TDR 2-2423HIWISMz1z1z1z1z1, TDR 2-4810HIWISMz1z1z1z1z1, TDR 2-4811HIWISMz1z1z1z1z1,

B. Mahlen

Bruce Mahrenholz, Director North American Certification Program

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Bruce Mahrenholz, Director North American Certification Program

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Certificate Number E188913
Report Reference E188913-20051104
Issue Date 2021-March-08

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B. Mahrenholz

Bruce Mahrenholz, Director North American Certification Program

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Report Reference E188913-20051104
Issue Date 2021-March-08

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B. Mahlen

Bruce Mahlenholz, Director North American Certification Program

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Report Reference E188913-20051104
Issue Date 2021-March-08

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THM 10-4823OAz1z1z1z1z1z1z1, TPI150-112Azzzzzzzz, TPI150-115Azzzzzzzz,
TPI150-124Azzzzzzzz, TPI150-128Azzzzzzzz, TPI150-136Azzzzzzzz, TPI150-148Azzzzzzzz,

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TPI150-112Uzzzzzzzz, TPI150-115Uzzzzzzzz, TPI150-124Uzzzzzzzz, TPI150-128Uzzzzzzzz,
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TEP 75-7211Wlaaaaaaaa (#), TEP 75-2712Wlaaaaaaaa (#), TEP 75-7213Wlaaaaaaaa (#),
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TEP 100-7213WIRaaaaaaa (#), TEP 100-7215WIRaaaaaaa (#), TEP 100-7216WIRaaaaaaa (#),
TEP 100-7218WIRaaaaaaa (#), TMR 3-1210WIHz1z1z1z1 (b), TMR 3-1211WIHz1z1z1z1 (b),
TMR 3-1219WIHz1z1z1z1 (b), TMR 3-1212WIHz1z1z1z1 (b), TMR 3-1213WIHz1z1z1z1 (b),
TMR 3-1221WIHz1z1z1z1 (b), TMR 3-1222WIHz1z1z1z1 (b), TMR 3-1223WIHz1z1z1z1 (b),
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TMR 3-4823WIHz1z1z1z1 (b), TMR 6-0510HIz1z1z1z1 (b), TMR 6-0511HIz1z1z1z1 (b),
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TMR 6-2415HIz1z1z1z1 (b), TMR 6-2421HIz1z1z1z1 (b), TMR 6-2422HIz1z1z1z1 (b),

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TMR 6-2423Hlz1z1z1z1z1 (b), TMR 6-4810Hlz1z1z1z1z1 (b), TMR 6-4811Hlz1z1z1z1z1 (b),
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TMR 6-4823Hlz1z1z1z1z1 (b), TMR 6-2410Wlzzzzzzzz (d), TMR 6-2411Wlzzzzzzzz (d),
TMR 6-2419Wlzzzzzzzz (d), TMR 6-2412Wlzzzzzzzz (d), TMR 6-2413Wlzzzzzzzz (d),
TMR 6-2415Wlzzzzzzzz (d), TMR 6-2421Wlzzzzzzzz (d), TMR 6-2422Wlzzzzzzzz (d),
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(e), TEQ75-2412WIRaaaaaaa (e), TEQ75-2415WIRaaaaaaa (e), TEQ75-2416WIRaaaaaaa (e),
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TMR 9-2419Wlzzzzzzzz (f), TMR 9-2412Wlzzzzzzzz (f), TMR 9-2413Wlzzzzzzzz (f),
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(f), THN 15-1215aaaaaaa (\$), THN 15-1225aaaaaaa (\$), THN 15-2415aaaaaaa (\$),
THN 15-2425aaaaaaa (\$), THN 15-4815aaaaaaa (\$), THN 15-4825aaaaaaa (\$),

B. Mahlen

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THN 15-2415Wlaaaaaaaaa (\$), THN 15-2425Wlaaaaaaaaa (\$), THN 15-4815Wlaaaaaaaaa (\$),
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TMR 3-1219z1z1z1z1z1z1 (b), TMR 3-2419z1z1z1z1z1z1 (b), TMR 3-4819z1z1z1z1z1z1 (b),
TEN 40-1234, TEQ 300-4812WIRaaaaaaaa (e), TEQ 300-4813WIRaaaaaaaa (e),
TEQ 300-4815WIRaaaaaaaa (e), TEQ 300-4816WIRaaaaaaaa (e), TEQ 300-4818WIRaaaaaaaa (e),
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TEQ 300-7216WIRaaaaaaaa (e), TEQ 300-7218WIRaaaaaaaa (e), THN 15-2410WIRzzzzz (f),
THN 15-2411WIRzzzzz (f), THN 15-2412WIRzzzzz (f), THN 15-2413WIRzzzzz (f),
THN 15-2415WIRzzzzz (f), THN 15-2421WIRzzzzz (f), THN 15-2422WIRzzzzz (f),
THN 15-2423WIRzzzzz (f), THN 15-2425WIRzzzzz (f), THN 15-4810WIRzzzzz (f),

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THN 15-4811WIRzzzzzz (f), THN 15-4812WIRzzzzzz (f), THN 15-4813WIRzzzzzz (f),
THN 15-4815WIRzzzzzz (f), THN 15-4821WIRzzzzzz (f), THN 15-4822WIRzzzzzz (f),
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THN 15-7223WIRzzzzzz (f), THN 15-7225WIRzzzzzz (f), TEQ 20-2411WIRaaaaaaaa (e),
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THN 15-2415Nzzzzzzzzzz (f), THN 15-2421Nzzzzzzzzzz (f), THN 15-2422Nzzzzzzzzzz (f),
THN 15-2423Nzzzzzzzzzz (f), THN 15-2425Nzzzzzzzzzz (f), THN 15-4810Nzzzzzzzzzz (f),
THN 15-4811Nzzzzzzzzzz (f), THN 15-4812Nzzzzzzzzzz (f), THN 15-4813Nzzzzzzzzzz (f),
THN 15-4815Nzzzzzzzzzz (f), THN 15-4821Nzzzzzzzzzz (f), THN 15-4822Nzzzzzzzzzz (f),
THN 15-4823Nzzzzzzzzzz (f), THN 15-4825Nzzzzzzzzzz (f), TIM 2-0910zzzzzzzzz,
TIM 2-0911zzzzzzzzz, TIM 2-0912zzzzzzzzz, TIM 2-0913zzzzzzzzz,
TIM 2-0915zzzzzzzzz, TIM 2-0922zzzzzzzzz, TIM 2-1210zzzzzzzzz, TIM 2-1211zzzzzzzzz,
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TIM 2-1222zzzzzzzzz, TIM 2-1223zzzzzzzzz, TIM 2-2410zzzzzzzzz (f), TIM 2-2411zzzzzzzzz (f),
TIM 2-2412zzzzzzzzz (f), TIM 2-2413zzzzzzzzz (f), TIM 2-2415zzzzzzzzz (f), TIM 2-2422zzzzzzzzz (f),
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TIM 2-4815SMzzzzzzzzz (f), TIM 2-4822SMzzzzzzzzz (f), TIM 2-4823SMzzzzzzzzz (f),
TIM 3.5-0911zzzzzzzzz (f), TIM 3.5-0919zzzzzzzzz (f), TIM 3.5-0912zzzzzzzzz (f),
TIM 3.5-0913zzzzzzzzz (f), TIM 3.5-0915zzzzzzzzz (f), TIM 3.5-0922zzzzzzzzz (f),
TIM 3.5-0923zzzzzzzzz (f), TIM 3.5-1211zzzzzzzzz (f), TIM 3.5-1219zzzzzzzzz (f),



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TIM 3.5-1212zzzzzzzz (f), TIM 3.5-1213zzzzzzzz (f), TIM 3.5-1215zzzzzzzz (f),
TIM 3.5-1222zzzzzzzz (f), TIM 3.5-1223zzzzzzzz (f), TIM 3.5-2411zzzzzzzz (f),
TIM 3.5-2419zzzzzzzz (f), TIM 3.5-2412zzzzzzzz (f), TIM 3.5-2413zzzzzzzz (f),
TIM 3.5-2415zzzzzzzz (f), TIM 3.5-2422zzzzzzzz (f), TIM 3.5-2423zzzzzzzz (f),
TIM 3.5-4811zzzzzzzz (f), TIM 3.5-4819zzzzzzzz (f), TIM 3.5-4812zzzzzzzz (f),
TIM 3.5-4813zzzzzzzz (f), TIM 3.5-4815zzzzzzzz (f), TIM 3.5-4822zzzzzzzz (f),
TIM 3.5-4823zzzzzzzz (f), TIM 3.5-0911SMzzzzzzzz (f), TIM 3.5-0919SMzzzzzzzz (f),
TIM 3.5-0912SMzzzzzzzz (f), TIM 3.5-0913SMzzzzzzzz (f), TIM 3.5-0915SMzzzzzzzz (f),
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TIM 3.5-4822SMzzzzzzzz (f), TIM 3.5-4823SMzzzzzzzz (f), TPP 15-103BA-Jzzzzzzzzz (f),
TPP 15-105BA-Jzzzzzzzzz (f), TPP 15-107BA-Jzzzzzzzzz (f), TPP 15-109BA-Jzzzzzzzzz (f),
TPP 15-112BA-Jzzzzzzzzz (f), TPP 15-115BA-Jzzzzzzzzz (f), TPP 15-118BA-Jzzzzzzzzz (f),
TPP 15-124BA-Jzzzzzzzzz (f), TPP 15-128BA-Jzzzzzzzzz (f), TPP 15-136BA-Jzzzzzzzzz (f),
TPP 15-148BA-Jzzzzzzzzz (f), TPP 15-153BA-Jzzzzzzzzz (f), TPP 15-103BAzzzzzzzz (f),
TPP 15-105BAzzzzzzzz (f), TPP 15-107BAzzzzzzzz (f), TPP 15-109BAzzzzzzzz (f),
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TPP 15-124A-Mzzzzzzzzz (f), TPP 15-128A-Mzzzzzzzzz (f), TPP 15-136A-Mzzzzzzzzz (f),
TPP 15-148A-Mzzzzzzzzz (f), TPP 15-153A-Mzzzzzzzzz (f), TPP 15-103A-Dzzzzzzzzz (f),
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TPP 15-148A-Dzzzzzzzzz (f), TPP 15-153A-Dzzzzzzzzz (f), TPP 15-103-Jzzzzzzzzz (f),

B. Mahlen

Bruce Mahlenholz, Director North American Certification Program

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TPP 15-105-Jzzzzzzzzz (f), TPP 15-107-Jzzzzzzzzz (f), TPP 15-109-Jzzzzzzzzz (f),
TPP 15-112-Jzzzzzzzzz (f), TPP 15-115-Jzzzzzzzzz (f), TPP 15-118-Jzzzzzzzzz (f),
TPP 15-124-Jzzzzzzzzz (f), TPP 15-128-Jzzzzzzzzz (f), TPP 15-136-Jzzzzzzzzz (f),
TPP 15-148-Jzzzzzzzzz (f), TPP 15-153-Jzzzzzzzzz (f), TPP 15-103zzzzzzzzz (f),
TPP 15-105zzzzzzzzz (f), TPP 15-107zzzzzzzzz (f), TPP 15-109zzzzzzzzz (f), TPP 15-112zzzzzzzzz (f),
TPP 15-115zzzzzzzzz (f), TPP 15-118zzzzzzzzz (f), TPP 15-124zzzzzzzzz (f), TPP 15-128zzzzzzzzz (f),
TPP 15-136zzzzzzzzz (f), TPP 15-148zzzzzzzzz (f), TPP 15-153zzzzzzzzz (f), TPP 15-103-Mzzzzzzzzz (f),
TPP 15-105-Mzzzzzzzzz (f), TPP 15-107-Mzzzzzzzzz (f), TPP 15-109-Mzzzzzzzzz (f),
TPP 15-112-Mzzzzzzzzz (f), TPP 15-115-Mzzzzzzzzz (f), TPP 15-118-Mzzzzzzzzz (f),
TPP 15-124-Mzzzzzzzzz (f), TPP 15-128-Mzzzzzzzzz (f), TPP 15-136-Mzzzzzzzzz (f),
TPP 15-148-Mzzzzzzzzz (f), TPP 15-153-Mzzzzzzzzz (f), TPP 15-103B-Mzzzzzzzzz (f),
TPP 15-105B-Mzzzzzzzzz (f), TPP 15-107B-Mzzzzzzzzz (f), TPP 15-109B-Mzzzzzzzzz (f),
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TPP 15-148-Dzzzzzzzzz (f), TPP 15-153-Dzzzzzzzzz (f), TPP 15-103A2-Jzzzzzzzzz (f),
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TPP 15-112A2-Jzzzzzzzzz (f), TPP 15-115A2-Jzzzzzzzzz (f), TPP 15-118A2-Jzzzzzzzzz (f),
TPP 15-124A2-Jzzzzzzzzz (f), TPP 15-128A2-Jzzzzzzzzz (f), TPP 15-136A2-Jzzzzzzzzz (f),
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TPP 30-124BAzzzzzzzzz (f), TPP 30-128BAzzzzzzzzz (f), TPP 30-136BAzzzzzzzzz (f),



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TPP 30-136BA-Mzzzzzzzz (f), TPP 30-148BA-Mzzzzzzzz (f), TPP 30-153BA-Mzzzzzzzz (f),
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TPP 30-148Azzzzzzzz (f), TPP 30-153Azzzzzzzz (f), TPP 30-103zzzzzzzz (f),
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TPP 30-112zzzzzzzz (f), TPP 30-112.1zzzzzzzz (f), TPP 30-115zzzzzzzz (f),



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TPP 30-136zzzzzzzz (f), TPP 30-148zzzzzzzz (f), TPP 30-153zzzzzzzz (f),
TPP 30-103A-Mzzzzzzzz (f), TPP 30-105A-Mzzzzzzzz (f), TPP 30-107A-Mzzzzzzzz (f),
TPP 30-109A-Mzzzzzzzz (f), TPP 30-112A-Mzzzzzzzz (f), TPP 30-112.1A-Mzzzzzzzz (f),
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TMR 6-2411WIRzzzzzzzz, TMR 6-2419WIRzzzzzzzz, TMR 6-2412WIRzzzzzzzz,
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TMR 6-7223WIRzzzzzzzz, TMR 3-2410WIRzzzzzzzz, TMR 3-2411WIRzzzzzzzz,

B. Mahlen

Bruce Mahlenholz, Director North American Certification Program

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CERTIFICATE OF COMPLIANCE

Certificate Number E188913
Report Reference E188913-20051104
Issue Date 2021-March-08

TMR 3-2419WIRzzzzzzzz, TMR 3-2412WIRzzzzzzzz, TMR 3-2413WIRzzzzzzzz,
TMR 3-2415WIRzzzzzzzz, TMR 3-2421WIRzzzzzzzz, TMR 3-2422WIRzzzzzzzz,
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THM 20-2414Wlzzzzzzzz, THM 20-48S10Wlzzzzzzzz, THM 20-4814Wlzzzzzzzz,

B. Mahlen

Bruce Mahrenholz, Director North American Certification Program

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CERTIFICATE OF COMPLIANCE

Certificate Number E188913
Report Reference E188913-20051104
Issue Date 2021-March-08

THM 30-12S10zzzzzzzz, THM 30-1214zzzzzzzz, THM 30-24S10zzzzzzzz, THM 30-2414zzzzzzzz,
THM 30-48S10zzzzzzzz, THM 30-4814zzzzzzzz, THM 30-24S10Wlzzzzzzzz,
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TPP 450-112A-MB4zzzzzzzz, TPP 450-115A-MB4zzzzzzzz, TPP 450-118A-MB4zzzzzzzz,
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B. Mahlen

Bruce Mahrenholz, Director North American Certification Program

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TPI 450-148B-Mzzzzzzzz, TPI 450-153B-Mzzzzzzzz, TPI 450-112B-MB6zzzzzzzz,
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TPI 450-136-MB5zzzzzzzz, TPI 450-142-MB5zzzzzzzz, TPI 450-148-MB5zzzzzzzz,
TPI 450-153-MB5zzzzzzzz

Where "z1" - can be any alphanumeric character, "-" or blank for market purpose.

Where "z" may be any alphanumeric character, "-" or blank for market purpose.

Where "a" may be any alphanumeric character, "-" or blank for market purpose.

(#) - Where "a" may be any alphanumeric character, punctuation mark or blank.


(b) - Where z1 may be any alphanumeric character, "-" or blank for market purpose.

(d) - Where "z" may be any alphanumeric character, "-" or blank for market purpose.

(e) - Where "a" may be any alphanumeric character, "-" or blank for market purpose.

(f) - Where "z" may be any alphanumeric character, "-" or blank for market purpose.

(\$) - Where "a" may be any alphanumeric character, "-" or blank.



Bruce Mahrenholz, Director North American Certification Program

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Issue Date 2021-March-08

(QQGQ2/8 & QQJQ2/8):


TPP 450-112BA-MB4zzzzzzzz, TPP 450-115BA-MB4zzzzzzzz, TPP 450-118BA-MB4zzzzzzzz, TPP 450-124BA-MB4zzzzzzzz, TPP 450-128BA-MB4zzzzzzzz, TPP 450-136BA-MB4zzzzzzzz, TPP 450-142BA-MB4zzzzzzzz, TPP 450-148BA-MB4zzzzzzzz, TPP 450-153BA-MB4zzzzzzzz, TPP 450-112BA-Mzzzzzzzz, TPP 450-115BA-Mzzzzzzzz, TPP 450-118BA-Mzzzzzzzz, TPP 450-124BA-Mzzzzzzzz, TPP 450-128BA-Mzzzzzzzz, TPP 450-136BA-Mzzzzzzzz, TPP 450-142BA-Mzzzzzzzz, TPP 450-148BA-Mzzzzzzzz, TPP 450-153BA-Mzzzzzzzz, TPP 450-112B-MB5zzzzzzzz, TPP 450-115B-MB5zzzzzzzz, TPP 450-118B-MB5zzzzzzzz, TPP 450-124B-MB5zzzzzzzz, TPP 450-128B-MB5zzzzzzzz, TPP 450-136B-MB5zzzzzzzz, TPP 450-142B-MB5zzzzzzzz, TPP 450-148B-MB5zzzzzzzz, TPP 450-153B-MB5zzzzzzzz, TPP 450-112B-MB6zzzzzzzz, TPP 450-115B-MB6zzzzzzzz, TPP 450-118B-MB6zzzzzzzz, TPP 450-124B-MB6zzzzzzzz, TPP 450-128B-MB6zzzzzzzz, TPP 450-136B-MB6zzzzzzzz, TPP 450-142B-MB6zzzzzzzz, TPP 450-148B-MB6zzzzzzzz, TPP 450-153B-MB6zzzzzzzz, TPP 450-112B-MB3zzzzzzzz, TPP 450-115B-MB3zzzzzzzz, TPP 450-118B-MB3zzzzzzzz, TPP 450-124B-MB3zzzzzzzz, TPP 450-128B-MB3zzzzzzzz, TPP 450-136B-MB3zzzzzzzz, TPP 450-142B-MB3zzzzzzzz, TPP 450-148B-MB3zzzzzzzz, TPP 450-153B-MB3zzzzzzzz, TPP 450-112B-MB1zzzzzzzz, TPP 450-115B-MB1zzzzzzzz, TPP 450-118B-MB1zzzzzzzz, TPP 450-124B-MB1zzzzzzzz, TPP 450-128B-MB1zzzzzzzz, TPP 450-136B-MB1zzzzzzzz, TPP 450-142B-MB1zzzzzzzz, TPP 450-148B-MB1zzzzzzzz, TPP 450-153B-MB1zzzzzzzz, TPP 450-112B-MB2zzzzzzzz, TPP 450-115B-MB2zzzzzzzz, TPP 450-118B-MB2zzzzzzzz, TPP 450-124B-MB2zzzzzzzz, TPP 450-128B-MB2zzzzzzzz, TPP 450-136B-MB2zzzzzzzz, TPP 450-142B-MB2zzzzzzzz, TPP 450-148B-MB2zzzzzzzz, TPP 450-153B-MB2zzzzzzzz, TPP 450-112B-Mzzzzzzzz, TPP 450-115B-Mzzzzzzzz, TPP 450-118B-Mzzzzzzzz, TPP 450-124B-Mzzzzzzzz, TPP 450-128B-Mzzzzzzzz, TPP 450-136B-Mzzzzzzzz, TPP 450-142B-Mzzzzzzzz, TPP 450-148B-Mzzzzzzzz, TPP 450-153B-Mzzzzzzzz.

Note: z can be any alphanumeric or dash or blank

DC-DC Converter (QQJQ2/8)

TEN 40-11011WIRHaaaaaa
TEN 40-11012WIRHaaaaaa
TEN 40-11013WIRHaaaaaa
TEN 40-11015WIRHaaaaaa
TEN 40-11022WIRHaaaaaa
TEN 40-11023WIRHaaaaaa

Note: a = alphanumeric, "-", "/" or blank for marketing purposes



Bruce Mahrenholz, Director North American Certification Program

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