

# CERTIFICATE OF COMPLIANCE

**Certificate Number** E188913  
**Report Reference** E188913-20160503  
**Issue Date** 2021-AUGUST-13

**Issued to:** TRACO ELECTRONIC AG  
Sihlbruggstrasse 111  
Baar, 6340 Switzerland

**This certificate confirms that  
representative samples of**

POWER SUPPLIES, MEDICAL AND DENTAL -  
COMPONENT

See Addendum Page for Models

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:**

See Addendum for Standards

**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 the UL Follow-Up Services Procedure provides authorization to apply the UL 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

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



# CERTIFICATE OF COMPLIANCE

**Certificate Number** E188913  
**Report Reference** E188913-20160503  
**Issue Date** 2021-AUGUST-13

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

Standard(s) for Safety - ANSI/AAMI ES60601-1 (2005/(R)2012 + A1:2012, C1:2009/(R)2012 + A2:2010/(R)2012) (Medical Electrical Equipment - Part 1: General Requirements for Basic Safety and Essential Performance)

ANSI/AAMI ES60601-1: A1:2012, C1:2009/(R)2012 and A2:2010/(R)2012

CAN/CSA-C22.2 No. 60601-1:14 (Medical electrical equipment - Part 1: General requirements for basic safety and essential performance)



Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



# CERTIFICATE OF COMPLIANCE

**Certificate Number** E188913  
**Report Reference** E188913-20160503  
**Issue Date** 2021-AUGUST-13

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

Models - TPP 15-103BA-Jzzzzzzzz, TPP 15-105BA-Jzzzzzzzz, TPP 15-107BA-Jzzzzzzzz, TPP 15-109BA-Jzzzzzzzz, TPP 15-112BA-Jzzzzzzzz, TPP 15-115BA-Jzzzzzzzz, TPP 15-118BA-Jzzzzzzzz, TPP 15-124BA-Jzzzzzzzz, TPP 15-128BA-Jzzzzzzzz, TPP 15-136BA-Jzzzzzzzz, TPP 15-148BA-Jzzzzzzzz, TPP 15-153BA-Jzzzzzzzz, TPP 15-103Bazzzzzzzz, TPP 15-105Bazzzzzzzz, TPP 15-107Bazzzzzzzz, TPP 15-109Bazzzzzzzz, TPP 15-112Bazzzzzzzz, TPP 15-115Bazzzzzzzz, TPP 15-118Bazzzzzzzz, TPP 15-124Bazzzzzzzz, TPP 15-128Bazzzzzzzz, TPP 15-136Bazzzzzzzz, TPP 15-148Bazzzzzzzz, TPP 15-153Bazzzzzzzz, TPP 15-103BA-Mzzzzzzzz, TPP 15-105BA-Mzzzzzzzz, TPP 15-107BA-Mzzzzzzzz, TPP 15-109BA-Mzzzzzzzz, TPP 15-112BA-Mzzzzzzzz, TPP 15-115BA-Mzzzzzzzz, TPP 15-118BA-Mzzzzzzzz, TPP 15-124BA-Mzzzzzzzz, TPP 15-128BA-Mzzzzzzzz, TPP 15-136BA-Mzzzzzzzz, TPP 15-148BA-Mzzzzzzzz, TPP 15-153BA-Mzzzzzzzz, TPP 15-103A-Jzzzzzzzz, TPP 15-105A-Jzzzzzzzz, TPP 15-107A-Jzzzzzzzz, TPP 15-109A-Jzzzzzzzz, TPP 15-112A-Jzzzzzzzz, TPP 15-115A-Jzzzzzzzz, TPP 15-118A-Jzzzzzzzz, TPP 15-124A-Jzzzzzzzz, TPP 15-128A-Jzzzzzzzz, TPP 15-136A-Jzzzzzzzz, TPP 15-148A-Jzzzzzzzz, TPP 15-153A-Jzzzzzzzz, TPP 15-103-Jzzzzzzzz, TPP 15-105-Jzzzzzzzz, TPP 15-107-Jzzzzzzzz, TPP 15-109-Jzzzzzzzz, TPP 15-112-Jzzzzzzzz, TPP 15-115-Jzzzzzzzz, TPP 15-118-Jzzzzzzzz, TPP 15-124-Jzzzzzzzz, TPP 15-128-Jzzzzzzzz, TPP 15-136-Jzzzzzzzz, TPP 15-148-Jzzzzzzzz, TPP 15-153-Jzzzzzzzz, TPP 15-103zzzzzzzz, TPP 15-105zzzzzzzz, TPP 15-107zzzzzzzz, TPP 15-109zzzzzzzz, TPP 15-112zzzzzzzz, TPP 15-115zzzzzzzz, TPP 15-118zzzzzzzz, TPP 15-124zzzzzzzz, TPP 15-128zzzzzzzz, TPP 15-136zzzzzzzz, TPP 15-148zzzzzzzz, TPP 15-153zzzzzzzz, TPP 15-103A-Mzzzzzzzz, TPP 15-105A-Mzzzzzzzz, TPP 15-107A-Mzzzzzzzz, TPP 15-109A-Mzzzzzzzz, TPP 15-112A-Mzzzzzzzz, TPP 15-115A-Mzzzzzzzz, TPP 15-118A-Mzzzzzzzz, TPP 15-124A-Mzzzzzzzz, TPP 15-128A-Mzzzzzzzz, TPP 15-136A-Mzzzzzzzz, TPP 15-148A-Mzzzzzzzz, TPP 15-153A-Mzzzzzzzz, TPP 15-103-Mzzzzzzzz, TPP 15-105-Mzzzzzzzz, TPP 15-107-Mzzzzzzzz, TPP 15-109-Mzzzzzzzz, TPP 15-112-Mzzzzzzzz, TPP 15-115-Mzzzzzzzz, TPP 15-118-Mzzzzzzzz, TPP 15-124-Mzzzzzzzz, TPP 15-128-Mzzzzzzzz, TPP 15-136-Mzzzzzzzz, TPP 15-148-Mzzzzzzzz, TPP 15-153-Mzzzzzzzz, TPP 15-103B-Mzzzzzzzz, TPP 15-105B-Mzzzzzzzz, TPP 15-107B-Mzzzzzzzz, TPP 15-109B-Mzzzzzzzz, TPP 15-112B-Mzzzzzzzz, TPP 15-115B-Mzzzzzzzz, TPP 15-118B-Mzzzzzzzz, TPP 15-124B-Mzzzzzzzz, TPP 15-128B-Mzzzzzzzz, TPP 15-136B-Mzzzzzzzz, TPP 15-148B-Mzzzzzzzz, TPP 15-153B-Mzzzzzzzz, TPP 15-103A-Dzzzzzzzz, TPP 15-105A-Dzzzzzzzz, TPP 15-107A-Dzzzzzzzz, TPP 15-109A-Dzzzzzzzz, TPP 15-112A-Dzzzzzzzz,

*B. Mahrenholz*

Bruce Mahrenholz, Director North American Certification Program  
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>





# CERTIFICATE OF COMPLIANCE

**Certificate Number** E188913  
**Report Reference** E188913-20160503  
**Issue Date** 2021-AUGUST-13

TPP 15-115A-Dzzzzzzzz, TPP 15-118A-Dzzzzzzzz, TPP 15-124A-Dzzzzzzzz, TPP 15-128A-Dzzzzzzzz, TPP 15-136A-Dzzzzzzzz, TPP 15-148A-Dzzzzzzzz, TPP 15-153A-Dzzzzzzzz, TPP 15-103-Dzzzzzzzz, TPP 15-105-Dzzzzzzzz, TPP 15-107-Dzzzzzzzz, TPP 15-109-Dzzzzzzzz, TPP 15-112-Dzzzzzzzz, TPP 15-115-Dzzzzzzzz, TPP 15-118-Dzzzzzzzz, TPP 15-124-Dzzzzzzzz, TPP 15-128-Dzzzzzzzz, TPP 15-136-Dzzzzzzzz, TPP 15-148-Dzzzzzzzz, TPP 15-153-Dzzzzzzzz, TPP 15-103A2-Jzzzzzzzz, TPP 15-105A2-Jzzzzzzzz, TPP 15-107A2-Jzzzzzzzz, TPP 15-109A2-Jzzzzzzzz, TPP 15-112A2-Jzzzzzzzz, TPP 15-115A2-Jzzzzzzzz, TPP 15-118A2-Jzzzzzzzz, TPP 15-124A2-Jzzzzzzzz, TPP 15-128A2-Jzzzzzzzz, TPP 15-136A2-Jzzzzzzzz, TPP 15-148A2-Jzzzzzzzz, TPP 15-153A2-Jzzzzzzzz, TPP 15-103A2zzzzzzzz, TPP 15-105A2zzzzzzzz, TPP 15-107A2zzzzzzzz, TPP 15-109A2zzzzzzzz, TPP 15-112A2zzzzzzzz, TPP 15-115A2zzzzzzzz, TPP 15-118A2zzzzzzzz, TPP 15-124A2zzzzzzzz, TPP 15-128A2zzzzzzzz, TPP 15-136A2zzzzzzzz, TPP 15-148A2zzzzzzzz, TPP 15-153A2zzzzzzzz, TPP 15-103A2-Mzzzzzzzz, TPP 15-105A2-Mzzzzzzzz, TPP 15-107A2-Mzzzzzzzz, TPP 15-109A2-Mzzzzzzzz, TPP 15-112A2-Mzzzzzzzz, TPP 15-115A2-Mzzzzzzzz, TPP 15-118A2-Mzzzzzzzz, TPP 15-124A2-Mzzzzzzzz, TPP 15-128A2-Mzzzzzzzz, TPP 15-136A2-Mzzzzzzzz, TPP 15-148A2-Mzzzzzzzz, TPP 15-153A2-Mzzzzzzzz, TPP 30-103BA-Jzzzzzzzz, TPP 30-105BA-Jzzzzzzzz, TPP 30-107BA-Jzzzzzzzz, TPP 30-109BA-Jzzzzzzzz, TPP 30-112BA-Jzzzzzzzz, TPP 30-112.1BA-Jzzzzzzzz, TPP 30-115BA-Jzzzzzzzz, TPP 30-115.1BA-Jzzzzzzzz, TPP 30-118BA-Jzzzzzzzz, TPP 30-124BA-Jzzzzzzzz, TPP 30-128BA-Jzzzzzzzz, TPP 30-136BA-Jzzzzzzzz, TPP 30-148BA-Jzzzzzzzz, TPP 30-153BA-Jzzzzzzzz, TPP 30-103B-Jzzzzzzzz, TPP 30-105B-Jzzzzzzzz, TPP 30-107B-Jzzzzzzzz, TPP 30-109B-Jzzzzzzzz, TPP 30-112B-Jzzzzzzzz, TPP 30-112.1B-Jzzzzzzzz, TPP 30-115B-Jzzzzzzzz, TPP 30-115.1B-Jzzzzzzzz, TPP 30-118B-Jzzzzzzzz, TPP 30-124B-Jzzzzzzzz, TPP 30-128B-Jzzzzzzzz, TPP 30-136B-Jzzzzzzzz, TPP 30-148B-Jzzzzzzzz, TPP 30-153B-Jzzzzzzzz, TPP 30-103BAzzzzzzzz, TPP 30-105BAzzzzzzzz, TPP 30-107BAzzzzzzzz, TPP 30-109BAzzzzzzzz, TPP 30-112BAzzzzzzzz, TPP 30-112.1BAzzzzzzzz, TPP 30-115BAzzzzzzzz, TPP 30-115.1BAzzzzzzzz, TPP 30-118BAzzzzzzzz, TPP 30-124BAzzzzzzzz, TPP 30-128BAzzzzzzzz, TPP 30-136BAzzzzzzzz, TPP 30-148BAzzzzzzzz, TPP 30-153BAzzzzzzzz, TPP 30-103Bzzzzzzzz, TPP 30-105Bzzzzzzzz, TPP 30-107Bzzzzzzzz, TPP 30-109Bzzzzzzzz, TPP 30-112Bzzzzzzzz, TPP 30-112.1Bzzzzzzzz, TPP 30-115Bzzzzzzzz, TPP 30-115.1Bzzzzzzzz, TPP 30-118Bzzzzzzzz, TPP 30-124Bzzzzzzzz, TPP 30-128Bzzzzzzzz, TPP 30-136Bzzzzzzzz, TPP 30-148Bzzzzzzzz, TPP 30-153Bzzzzzzzz, TPP 30-103BA-Mzzzzzzzz, TPP 30-105BA-Mzzzzzzzz, TPP 30-107BA-Mzzzzzzzz, TPP 30-109BA-Mzzzzzzzz, TPP 30-112BA-Mzzzzzzzz, TPP 30-112.1BA-Mzzzzzzzz, TPP 30-115BA-Mzzzzzzzz, TPP 30-115.1BA-Mzzzzzzzz, TPP 30-118BA-Mzzzzzzzz, TPP 30-124BA-Mzzzzzzzz, TPP 30-128BA-Mzzzzzzzz, TPP 30-136BA-Mzzzzzzzz, TPP 30-148BA-Mzzzzzzzz, TPP 30-153BA-Mzzzzzzzz, TPP 30-103B-Mzzzzzzzz, TPP 30-105B-Mzzzzzzzz, TPP 30-107B-Mzzzzzzzz, TPP 30-109B-Mzzzzzzzz, TPP 30-112B-Mzzzzzzzz, TPP 30-112.1B-Mzzzzzzzz, TPP 30-115B-Mzzzzzzzz, TPP 30-115.1B-Mzzzzzzzz, TPP 30-118B-Mzzzzzzzz, TPP 30-124B-Mzzzzzzzz, TPP 30-128B-Mzzzzzzzz, TPP 30-136B-Mzzzzzzzz, TPP 30-148B-Mzzzzzzzz, TPP 30-153B-Mzzzzzzzz, TPP 30-103BA2-Jzzzzzzzz, TPP 30-105BA2-Jzzzzzzzz, TPP 30-107BA2-Jzzzzzzzz, TPP 30-109BA2-Jzzzzzzzz, TPP 30-112BA2-Jzzzzzzzz, TPP 30-112.1BA2-Jzzzzzzzz, TPP 30-115BA2-Jzzzzzzzz, TPP 30-115.1BA2-Jzzzzzzzz, TPP 30-118BA2-Jzzzzzzzz, TPP 30-124BA2-Jzzzzzzzz, TPP 30-128BA2-Jzzzzzzzz, TPP 30-136BA2-Jzzzzzzzz, TPP 30-148BA2-Jzzzzzzzz, TPP 30-153BA2-Jzzzzzzzz, TPP 30-103BA2-Mzzzzzzzz, TPP 30-105BA2-Mzzzzzzzz, TPP 30-107BA2-Mzzzzzzzz, TPP 30-109BA2-Mzzzzzzzz,



Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



# CERTIFICATE OF COMPLIANCE

**Certificate Number** E188913  
**Report Reference** E188913-20160503  
**Issue Date** 2021-AUGUST-13

TPP 30-112BA2-Mzzzzzzzz, TPP 30-112.1BA2-Mzzzzzzzz, TPP 30-115BA2-Mzzzzzzzz, TPP 30-115.1BA2-Mzzzzzzzz, TPP 30-118BA2-Mzzzzzzzz, TPP 30-124BA2-Mzzzzzzzz, TPP 30-128BA2-Mzzzzzzzz, TPP 30-136BA2-Mzzzzzzzz, TPP 30-148BA2-Mzzzzzzzz, TPP 30-153BA2-Mzzzzzzzz, TPP 30-103BA2zzzzzzzz, TPP 30-105BA2zzzzzzzz, TPP 30-107BA2zzzzzzzz, TPP 30-109BA2zzzzzzzz, TPP 30-112BA2zzzzzzzz, TPP 30-112.1BA2zzzzzzzz, TPP 30-115BA2zzzzzzzz, TPP 30-115.1BA2zzzzzzzz, TPP 30-118BA2zzzzzzzz, TPP 30-124BA2zzzzzzzz, TPP 30-128BA2zzzzzzzz, TPP 30-136BA2zzzzzzzz, TPP 30-148BA2zzzzzzzz, TPP 30-153BA2zzzzzzzz, TPP 30-103A-Jzzzzzzzz, TPP 30-105A-Jzzzzzzzz, TPP 30-107A-Jzzzzzzzz, TPP 30-109A-Jzzzzzzzz, TPP 30-112A-Jzzzzzzzz, TPP 30-112.1A-Jzzzzzzzz, TPP 30-115A-Jzzzzzzzz, TPP 30-115.1A-Jzzzzzzzz, TPP 30-118A-Jzzzzzzzz, TPP 30-124A-Jzzzzzzzz, TPP 30-128A-Jzzzzzzzz, TPP 30-136A-Jzzzzzzzz, TPP 30-148A-Jzzzzzzzz, TPP 30-153A-Jzzzzzzzz, TPP 30-103-Jzzzzzzzz, TPP 30-105-Jzzzzzzzz, TPP 30-107-Jzzzzzzzz, TPP 30-109-Jzzzzzzzz, TPP 30-112-Jzzzzzzzz, TPP 30-112.1-Jzzzzzzzz, TPP 30-115-Jzzzzzzzz, TPP 30-115.1-Jzzzzzzzz, TPP 30-118-Jzzzzzzzz, TPP 30-124-Jzzzzzzzz, TPP 30-128-Jzzzzzzzz, TPP 30-136-Jzzzzzzzz, TPP 30-148-Jzzzzzzzz, TPP 30-153-Jzzzzzzzz, TPP 30-103Azzzzzzzz, TPP 30-105Azzzzzzzz, TPP 30-107Azzzzzzzz, TPP 30-109Azzzzzzzz, TPP 30-112Azzzzzzzz, TPP 30-112.1Azzzzzzzz, TPP 30-115Azzzzzzzz, TPP 30-115.1Azzzzzzzz, TPP 30-118Azzzzzzzz, TPP 30-124Azzzzzzzz, TPP 30-128Azzzzzzzz, TPP 30-136Azzzzzzzz, TPP 30-148Azzzzzzzz, TPP 30-153Azzzzzzzz, TPP 30-103zzzzzzzz, TPP 30-105zzzzzzzz, TPP 30-107zzzzzzzz, TPP 30-109zzzzzzzz, TPP 30-112zzzzzzzz, TPP 30-112.1zzzzzzzz, TPP 30-115zzzzzzzz, TPP 30-115.1zzzzzzzz, TPP 30-118zzzzzzzz, TPP 30-124zzzzzzzz, TPP 30-128zzzzzzzz, TPP 30-136zzzzzzzz, TPP 30-148zzzzzzzz, TPP 30-153zzzzzzzz, TPP 30-103A-Mzzzzzzzz, TPP 30-105A-Mzzzzzzzz, TPP 30-107A-Mzzzzzzzz, TPP 30-109A-Mzzzzzzzz, TPP 30-112A-Mzzzzzzzz, TPP 30-112.1A-Mzzzzzzzz, TPP 30-115A-Mzzzzzzzz, TPP 30-115.1A-Mzzzzzzzz, TPP 30-118A-Mzzzzzzzz, TPP 30-124A-Mzzzzzzzz, TPP 30-128A-Mzzzzzzzz, TPP 30-136A-Mzzzzzzzz, TPP 30-148A-Mzzzzzzzz, TPP 30-153A-Mzzzzzzzz, TPP 30-103-Mzzzzzzzz, TPP 30-105-Mzzzzzzzz, TPP 30-107-Mzzzzzzzz, TPP 30-109-Mzzzzzzzz, TPP 30-112-Mzzzzzzzz, TPP 30-112.1-Mzzzzzzzz, TPP 30-115-Mzzzzzzzz, TPP 30-115.1-Mzzzzzzzz, TPP 30-118-Mzzzzzzzz, TPP 30-124-Mzzzzzzzz, TPP 30-128-Mzzzzzzzz, TPP 30-136-Mzzzzzzzz, TPP 30-148-Mzzzzzzzz, TPP 30-153-Mzzzzzzzz, TPP 30-103A-Dzzzzzzzz, TPP 30-105A-Dzzzzzzzz, TPP 30-107A-Dzzzzzzzz, TPP 30-109A-Dzzzzzzzz, TPP 30-112A-Dzzzzzzzz, TPP 30-112.1A-Dzzzzzzzz, TPP 30-115A-Dzzzzzzzz, TPP 30-115.1A-Dzzzzzzzz, TPP 30-118A-Dzzzzzzzz, TPP 30-124A-Dzzzzzzzz, TPP 30-128A-Dzzzzzzzz, TPP 30-136A-Dzzzzzzzz, TPP 30-148A-Dzzzzzzzz, TPP 30-153A-Dzzzzzzzz, TPP 30-103-Dzzzzzzzz, TPP 30-105-Dzzzzzzzz, TPP 30-107-Dzzzzzzzz, TPP 30-109-Dzzzzzzzz, TPP 30-112-Dzzzzzzzz, TPP 30-112.1-Dzzzzzzzz, TPP 30-115-Dzzzzzzzz, TPP 30-115.1-Dzzzzzzzz, TPP 30-118-Dzzzzzzzz, TPP 30-124-Dzzzzzzzz, TPP 30-128-Dzzzzzzzz, TPP 30-136-Dzzzzzzzz, TPP 30-148-Dzzzzzzzz, TPP 30-153-Dzzzzzzzz, TPP 30-103A2-Jzzzzzzzz, TPP 30-105A2-Jzzzzzzzz, TPP 30-107A2-Jzzzzzzzz, TPP 30-109A2-Jzzzzzzzz, TPP 30-112A2-Jzzzzzzzz, TPP 30-112.1A2-Jzzzzzzzz, TPP 30-115A2-Jzzzzzzzz, TPP 30-115.1A2-Jzzzzzzzz, TPP 30-118A2-Jzzzzzzzz, TPP 30-124A2-Jzzzzzzzz, TPP 30-128A2-Jzzzzzzzz, TPP 30-136A2-Jzzzzzzzz, TPP 30-148A2-Jzzzzzzzz, TPP 30-153A2-Jzzzzzzzz, TPP 30-103A2-Mzzzzzzzz, TPP 30-105A2-Mzzzzzzzz, TPP 30-107A2-Mzzzzzzzz, TPP 30-109A2-Mzzzzzzzz, TPP 30-112A2-Mzzzzzzzz, TPP 30-112.1A2-Mzzzzzzzz.

*B. Mahrenholz*

Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>





# CERTIFICATE OF COMPLIANCE

**Certificate Number** E188913  
**Report Reference** E188913-20160503  
**Issue Date** 2021-AUGUST-13

TPP 30-115A2-Mzzzzzzzz, TPP 30-115.1A2-Mzzzzzzzz, TPP 30-118A2-Mzzzzzzzz, TPP 30-124A2-Mzzzzzzzz, TPP 30-128A2-Mzzzzzzzz, TPP 30-136A2-Mzzzzzzzz, TPP 30-148A2-Mzzzzzzzz, TPP 30-153A2-Mzzzzzzzz, TPP 30-103A2zzzzzzzz, TPP 30-105A2zzzzzzzz, TPP 30-107A2zzzzzzzz, TPP 30-109A2zzzzzzzz, TPP 30-112A2zzzzzzzz, TPP 30-112.1A2zzzzzzzz, TPP 30-115A2zzzzzzzz, TPP 30-115.1A2zzzzzzzz, TPP 30-118A2zzzzzzzz, TPP 30-124A2zzzzzzzz, TPP 30-128A2zzzzzzzz, TPP 30-136A2zzzzzzzz, TPP 30-148A2zzzzzzzz, TPP 30-153A2zzzzzzzz, TIM 2-0910zzzzzzzz, TIM 2-0911zzzzzzzz, TIM 2-0919zzzzzzzz, TIM 2-0912zzzzzzzz, TIM 2-0913zzzzzzzz, TIM 2-0915zzzzzzzz, TIM 2-0922zzzzzzzz, TIM 2-0923zzzzzzzz, TIM 2-1210zzzzzzzz, TIM 2-1211zzzzzzzz, TIM 2-1219zzzzzzzz, TIM 2-1212zzzzzzzz, TIM 2-1213zzzzzzzz, TIM 2-1215zzzzzzzz, TIM 2-1222zzzzzzzz, TIM 2-1223zzzzzzzz, TIM 2-2410zzzzzzzz, TIM 2-2411zzzzzzzz, TIM 2-2419zzzzzzzz, TIM 2-2412zzzzzzzz, TIM 2-2413zzzzzzzz, TIM 2-2415zzzzzzzz, TIM 2-2422zzzzzzzz, TIM 2-2423zzzzzzzz, TIM 2-4810zzzzzzzz, TIM 2-4811zzzzzzzz, TIM 2-4819zzzzzzzz, TIM 2-4812zzzzzzzz, TIM 2-4813zzzzzzzz, TIM 2-4815zzzzzzzz, TIM 2-4822zzzzzzzz, TIM 2-4823zzzzzzzz, TIM 2-0910SMzzzzzzzz, TIM 2-0911SMzzzzzzzz, TIM 2-0919SMzzzzzzzz, TIM 2-0912SMzzzzzzzz, TIM 2-0913SMzzzzzzzz, TIM 2-0915SMzzzzzzzz, TIM 2-0922SMzzzzzzzz, TIM 2-0923SMzzzzzzzz, TIM 2-1210SMzzzzzzzz, TIM 2-1211SMzzzzzzzz, TIM 2-1219SMzzzzzzzz, TIM 2-1212SMzzzzzzzz, TIM 2-1213SMzzzzzzzz, TIM 2-1215SMzzzzzzzz, TIM 2-1222SMzzzzzzzz, TIM 2-1223SMzzzzzzzz, TIM 2-2410SMzzzzzzzz, TIM 2-2411SMzzzzzzzz, TIM 2-2419SMzzzzzzzz, TIM 2-2412SMzzzzzzzz, TIM 2-2413SMzzzzzzzz, TIM 2-2415SMzzzzzzzz, TIM 2-2422SMzzzzzzzz, TIM 2-2423SMzzzzzzzz, TIM 2-4810SMzzzzzzzz, TIM 2-4811SMzzzzzzzz, TIM 2-4819SMzzzzzzzz, TIM 2-4812SMzzzzzzzz, TIM 2-4813SMzzzzzzzz, TIM 2-4815SMzzzzzzzz, TIM 2-4822SMzzzzzzzz, TIM 2-4823SMzzzzzzzz, TIM 3.5-0911zzzzzzzz, TIM 3.5-0919zzzzzzzz, TIM 3.5-0912zzzzzzzz, TIM 3.5-0913zzzzzzzz, TIM 3.5-0915zzzzzzzz, TIM 3.5-0922zzzzzzzz, TIM 3.5-0923zzzzzzzz, TIM 3.5-1211zzzzzzzz, TIM 3.5-1219zzzzzzzz, TIM 3.5-1212zzzzzzzz, TIM 3.5-1213zzzzzzzz, TIM 3.5-1215zzzzzzzz, TIM 3.5-1222zzzzzzzz, TIM 3.5-1223zzzzzzzz, TIM 3.5-2411zzzzzzzz, TIM 3.5-2419zzzzzzzz, TIM 3.5-2412zzzzzzzz, TIM 3.5-2413zzzzzzzz, TIM 3.5-2415zzzzzzzz, TIM 3.5-2422zzzzzzzz, TIM 3.5-2423zzzzzzzz, TIM 3.5-4811zzzzzzzz, TIM 3.5-4819zzzzzzzz, TIM 3.5-4812zzzzzzzz, TIM 3.5-4813zzzzzzzz, TIM 3.5-4815zzzzzzzz, TIM 3.5-4822zzzzzzzz, TIM 3.5-4823zzzzzzzz, TIM 3.5-0911SMzzzzzzzz, TIM 3.5-0919SMzzzzzzzz, TIM 3.5-0912SMzzzzzzzz, TIM 3.5-0913SMzzzzzzzz, TIM 3.5-0915SMzzzzzzzz, TIM 3.5-0922SMzzzzzzzz, TIM 3.5-0923SMzzzzzzzz, TIM 3.5-1211SMzzzzzzzz, TIM 3.5-1219SMzzzzzzzz, TIM 3.5-1212SMzzzzzzzz, TIM 3.5-1213SMzzzzzzzz, TIM 3.5-1215SMzzzzzzzz, TIM 3.5-1222SMzzzzzzzz, TIM 3.5-1223SMzzzzzzzz, TIM 3.5-2411SMzzzzzzzz, TIM 3.5-2419SMzzzzzzzz, TIM 3.5-2412SMzzzzzzzz, TIM 3.5-2413SMzzzzzzzz, TIM 3.5-2415SMzzzzzzzz, TIM 3.5-2422SMzzzzzzzz, TIM 3.5-2423SMzzzzzzzz, TIM 3.5-4811SMzzzzzzzz, TIM 3.5-4819SMzzzzzzzz, TIM 3.5-4812SMzzzzzzzz, TIM 3.5-4813SMzzzzzzzz, TIM 3.5-4815SMzzzzzzzz, TIM 3.5-4822SMzzzzzzzz, TIM 3.5-4823SMzzzzzzzz

TPP 450-112A-MB4zzzzzzzz, TPP 450-115A-MB4zzzzzzzz, TPP 450-124A-MB4zzzzzzzz, TPP 450-128A-MB4zzzzzzzz, TPP 450-136A-MB4zzzzzzzz, TPP 450-148A-MB4zzzzzzzz, TPP 450-153A-MB4zzzzzzzz, TPP 450-112A-Mzzzzzzzz, TPP 450-115A-Mzzzzzzzz, TPP 450-124A-Mzzzzzzzz, TPP 450-128A-Mzzzzzzzz, TPP 450-136A-Mzzzzzzzz, TPP 450-148A-Mzzzzzzzz, TPP 450-153A-Mzzzzzzzz, TPP 450-112-MB3zzzzzzzz, TPP 450-115-MB3zzzzzzzz, TPP 450-124-MB3zzzzzzzz, TPP 450-128-MB3zzzzzzzz.

*B. Mahlen*

Bruce Mahlenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



# CERTIFICATE OF COMPLIANCE


Certificate Number E188913  
Report Reference E188913-20160503  
Issue Date 2021-AUGUST-13

TPP 450-136-MB3zzzzzzzz, TPP 450-148-MB3zzzzzzzz, TPP 450-153-MB3zzzzzzzz, TPP 450-112-MB2zzzzzzzz, TPP 450-115-MB2zzzzzzzz, TPP 450-124-MB2zzzzzzzz, TPP 450-128-MB2zzzzzzzz, TPP 450-136-MB2zzzzzzzz, TPP 450-148-MB2zzzzzzzz, TPP 450-153-MB2zzzzzzzz, TPP 450-112-MB1zzzzzzzz, TPP 450-115-MB1zzzzzzzz, TPP 450-124-MB1zzzzzzzz, TPP 450-128-MB1zzzzzzzz, TPP 450-136-MB1zzzzzzzz, TPP 450-148-MB1zzzzzzzz, TPP 450-153-MB1zzzzzzzz, TPP 450-112-Mzzzzzzzz, TPP 450-115-Mzzzzzzzz, TPP 450-124-Mzzzzzzzz, TPP 450-128-Mzzzzzzzz, TPP 450-136-Mzzzzzzzz, TPP 450-148-Mzzzzzzzz, TPP 450-153-Mzzzzzzzz, TPP 450-112-MB6zzzzzzzz, TPP 450-115-MB6zzzzzzzz, TPP 450-124-MB6zzzzzzzz, TPP 450-128-MB6zzzzzzzz, TPP 450-136-MB6zzzzzzzz, TPP 450-148-MB6zzzzzzzz, TPP 450-153-MB6zzzzzzzz, TPP 450-112-MB5zzzzzzzz, TPP 450-115-MB5zzzzzzzz, TPP 450-124-MB5zzzzzzzz, TPP 450-128-MB5zzzzzzzz, TPP 450-136-MB5zzzzzzzz, TPP 450-148-MB5zzzzzzzz, TPP 450-153-MB5zzzzzzzz

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

TRV 1-0510Maaaaaa (a), TRV 1-0511Maaaaaa (a), TRV 1-0512Maaaaaa (a), TRV 1-0513Maaaaaa (a), TRV 1-0521Maaaaaa (a), TRV 1-0522Maaaaaa (a), TRV 1-0523Maaaaaa (a), TRV 1-1210Maaaaaa (a), TRV 1-1211Maaaaaa (a), TRV 1-1212Maaaaaa (a), TRV 1-1213Maaaaaa (a), TRV 1-1221Maaaaaa (a), TRV 1-1222Maaaaaa (a), TRV 1-1223Maaaaaa (a), TRV 1-1510Maaaaaa (a), TRV 1-1511Maaaaaa (a), TRV 1-1512Maaaaaa (a), TRV 1-1513Maaaaaa (a), TRV 1-1521Maaaaaa (a), TRV 1-1522Maaaaaa (a), TRV 1-1523Maaaaaa (a), TRV 1-2410Maaaaaa (a), TRV 1-2411Maaaaaa (a), TRV 1-2412Maaaaaa (a), TRV 1-2413Maaaaaa (a), TRV 1-2421Maaaaaa (a), TRV 1-2422Maaaaaa (a), TRV 1-2423Maaaaaa (a)

(a) - a = alphanumeric, "-", "/" or blank for marketing purposes.



Bruce Mahrenholz, Director North American Certification Program  
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>





# CERTIFICATE OF COMPLIANCE

**Certificate Number** E188913  
**Report Reference** E188913-20160503  
**Issue Date** 2021-AUGUST-13

Models - TPP 40-105E-Dzzzzzzz, TPP 40-107E-Dzzzzzzz, TPP 40-109E-Dzzzzzzz, TPP 40-112E-Dzzzzzzz, TPP 40-112E-DB1zzzzzz, TPP 40-115E-Dzzzzzzz, TPP 40-115E-DB1zzzzzz, TPP 40-118E-Dzzzzzzz, TPP 40-124E-Dzzzzzzz, TPP 40-128E-Dzzzzzzz, TPP 40-136E-Dzzzzzzz, TPP 40-148E-Dzzzzzzz, TPP 40-153E-Dzzzzzzz, TPP 40-105E-Jzzzzzzz, TPP 40-107E-Jzzzzzzz, TPP 40-109E-Jzzzzzzz, TPP 40-112E-Jzzzzzzz, TPP 40-112E-JB1zzzzzz, TPP 40-115E-Jzzzzzzz, TPP 40-115E-JB1zzzzzz, TPP 40-118E-Jzzzzzzz, TPP 40-124E-Jzzzzzzz, TPP 40-128E-Jzzzzzzz, TPP 40-136E-Jzzzzzzz, TPP 40-148E-Jzzzzzzz, TPP 40-153E-Jzzzzzzz, TPP 65-105E-Dzzzzzzz, TPP 65-107E-Dzzzzzzz, TPP 65-109E-Dzzzzzzz, TPP 65-112E-Dzzzzzzz, TPP 65-115E-Dzzzzzzz, TPP 65-118E-Dzzzzzzz, TPP 65-124E-Dzzzzzzz, TPP 65-124E-DB1zzzzzz, TPP 65-128E-Dzzzzzzz, TPP 65-128E-DB1zzzzzz, TPP 65-136E-Dzzzzzzz, TPP 65-148E-Dzzzzzzz, TPP 65-153E-Dzzzzzzz, TPP 65-105E-Jzzzzzzz, TPP 65-107E-Jzzzzzzz, TPP 65-109E-Jzzzzzzz, TPP 65-112E-Jzzzzzzz, TPP 65-115E-Jzzzzzzz, TPP 65-118E-Jzzzzzzz, TPP 65-124E-Jzzzzzzz, TPP 65-124E-JB1zzzzzz, TPP 65-128E-Jzzzzzzz, TPP 65-128E-JB1zzzzzz, TPP 65-136E-Jzzzzzzz, TPP 65-148E-Jzzzzzzz, TPP 65-153E-Jzzzzzzz.

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

----  
DC-DC Converter - THM 60-2411Wlzzzzzz (^), THM 60-2412Wlzzzzzz (^), THM 60-2413Wlzzzzzz (^), THM 60-2415Wlzzzzzz (^), THM 60-2422Wlzzzzzz (^), THM 60-2423Wlzzzzzz (^), THM 60-4811Wlzzzzzz (^), THM 60-4812Wlzzzzzz (^), THM 60-4813Wlzzzzzz (^), THM 60-4815Wlzzzzzz (^), THM 60-4822Wlzzzzzz (^), THM 60-4823Wlzzzzzz (^)

(^)- z= alphanumeric, "-", "/" or blank for marketing purposes



Bruce Mahrenholz, Director North American Certification Program  
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>

