

Certificate Number: 121621X3-A6040

Date: 2023-06-21

## UL CONDITIONS OF ACCEPTABILITY

**Company Name:** TRACO ELECTRONIC AG

**File-CCN:** E188913- QQJQ2, QQJQ8

**Product Description:** POWER SUPPLIES FOR USE WITH AUDIO/VIDEO, INFORMATION AND COMMUNICATION TECHNOLOGY EQUIPMENT - COMPONENT

**Models:** TPI 300-112BA-MF(a), TPI 300-115BA-MF(a), TPI 300-118BA-MF(a), TPI 300-124BA-MF(a), TPI 300-128BA-MF(a), TPI 300-136BA-MF(a), TPI 300-148BA-MF(a), TPI 300-153BA-MF(a), TPI 300-112BA-M(a), TPI 300-115BA-M (a), TPI 300-118BA-M (a), TPI 300-124BA-M (a), TPI 300-128BA-M (a), TPI 300-136BA-M (a), TPI 300-148BA-M (a), TPI 300-153BA-M (a), TPI 300-112B-MF(a), TPI 300-115B-MF(a), TPI 300-118B-MF(a), TPI 300-124B-MF(a), TPI 300-128B-MF(a), TPI 300-136B-MF(a), TPI 300-148B-MF(a), TPI 300-153B-MF(a), TPI 300-112B-M(a), TPI 300-115B-M(a), TPI 300-118B-M(a), TPI 300-124B-M(a), TPI 300-128B-M(a), TPI 300-136B-M(a), TPI 300-148B-M(a), TPI 300-153B-M(a), TPI 300-112BDR-MF(a), TPI 300-115BDR-MF(a), TPI 300-118BDR-MF(a), TPI 300-124BDR-MF(a), TPI 300-128BDR-MF(a), TPI 300-136BDR-MF(a), TPI 300-148BDR-MF(a), TPI 300-153BDR-MF(a), TPI 300-112BDR-M(a), TPI 300-115BDR-M(a), TPI 300-118BDR-M(a), TPI 300-124BDR-M(a), TPI 300-128BDR-M(a), TPI 300-136BDR-M(a), TPI 300-148BDR-M(a), TPI 300-153BDR-M(a), TPI 300-112A-MF(a), TPI 300-115A-MF(a), TPI 300-118A-MF(a), TPI 300-124A-MF(a), TPI 300-128A-MF(a), TPI 300-136A-MF(a), TPI 300-148A-MF(a), TPI 300-153A-MF(a), TPI 300-112A-M(a), TPI 300-115A-M(a), TPI 300-118A-M(a), TPI 300-124A-M(a), TPI 300-128A-M(a), TPI 300-136A-M(a), TPI 300-148A-M(a), TPI 300-153A-M(a), TPI 300-112-MF(a), TPI 300-115-MF(a), TPI 300-118-MF(a), TPI 300-124-MF(a), TPI 300-128-MF(a), TPI 300-136-MF(a), TPI 300-148-MF(a), TPI 300-153-MF(a), TPI 300-112-M(a), TPI 300-115-M(a), TPI 300-118-M(a), TPI 300-124-M(a), TPI 300-128-M(a), TPI 300-136-M(a), TPI 300-148-M(a), TPI 300-153-M(a), TPI 300-112DR-MF(a), TPI 300-115DR-MF(a), TPI 300-118DR-MF(a), TPI 300-124DR-MF(a), TPI 300-128DR-MF(a), TPI 300-136DR-MF(a), TPI 300-148DR-MF(a), TPI 300-153DR-MF(a), TPI 300-112DR-M(a), TPI 300-115DR-M(a), TPI 300-118DR-M(a), TPI 300-124DR-M(a), TPI 300-128DR-M(a), TPI 300-136DR-M(a), TPI 300-148DR-M(a), TPI 300-153DR-M(a)

**Conditions Of Acceptability:** For use only in or with complete equipment where the acceptability of the combination is determined by UL LLC. When installed in an end-product, consideration must be given to the following:

TPI 300-1xa

x can be 12, 15, 18, 24, 28, 36, 48 or 53, a can be BA-MF, BA-M, B-MF, B-M, BDR-MF, BDR-M, be A-MF, A-M, -MF, -M, -MF, DR-MF, DR-M

- The following product-line tests are conducted for this product : Electric Strength
- The end-product Electric Strength Test is to be based upon a maximum working voltage of : Primary-Metal (Floating): 360 Vrms, 568 Vpk, Primary-SELV: 360 Vrms, 568 Vpk
- The following output circuits are at ES1 energy levels : Outputs for all models except for models TPI 300-1xa, when x=53.
- The following output circuits are at ES2 energy levels : Outputs for models TPI 300-1xa, when x=53.
- The following output circuits are at PS3 energy levels : Outputs for all models
- The maximum investigated branch circuit rating is : 20 A
- The investigated Pollution Degree is : 2

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- Proper bonding to the end-product main protective earthing termination is : Required
- An investigation of the protective bonding terminals has : not been conducted
- The following end-product enclosures are required : Electrical, Fire, Mechanical
- The following magnetic devices (e.g. transformers or inductor) are provided with an OBJ2 insulation system with the indicated rating greater than Class A (105°C) : TX1, TX2 (Class B)
- The maximum continuous power supply output (Watts) relied on forced air cooling from : (For model with z = U2 or blank) Forced air cooling 2.0 cm (minimum 10.28 CFM airflow) and the distance is 10 cm between a test corner and EUT. See Enclosure ID 7-02 for details.
- The Class of equipment and AC Power Distribution Systems to which the end-use equipment is connected are to be evaluated when it's employed in the end-use equipment.
- The terminals of this component are only suitable for factory wiring only.
- For DC-in,
  1. the equipment has been evaluated for reinforced insulation and intended to be supplied by an isolated or non-isolated DC source.
  2. The Current rating of protective device is to be determined when it's employed in the end-use equipment for DC-in.
- The need for suitable Electrical enclosure (for ES safeguard), fire enclosure (for PS safeguard), mechanical enclosure (for MS safeguard), and safeguard for thermal burn injury (for TS safeguard) are to be evaluated and provided (if necessary) when it's employed in the end-use equipment.
- The following CAUTION shall be considered and provided (if necessary) when it's employed in the end-use equipment: "Double pole, neutral fusing. Disconnect mains before servicing."
- The transient voltage is assuming up to 2500 Vpeak for models TPI 300-1xa.

**Ratings:** All models are similar to each other, except for input rating, output ratings, windings of transformer (TX1), circuits, PCB layout, over voltage category, altitude during operation, Class of equipment, the manufacturer's specified ambient temperature (Tma) and model designation

TPI 300-1xa

x can be 12, 15, 18, 24, 28, 36, 48 and 53, to denote different output voltage rating, use with Molex connector with Open Frame type, Input voltage is 100-240 Vac, altitude 5000 m, a can be BA-MF, BA-M, B-MF, B-M, BDR-MF, BDR-M, be A-MF, A-M, -MF, -M, -MF, DR-MF, DR-M, for marketing purpose only and no impact safety related constructions and critical components and Models have I/P (V, Hz, A) 100-240 Vac, 50/60 Hz, 3.9 A Max

x=12, Output voltage is 12 Vdc.

x=15, Output voltage is 15 Vdc.

x=18, Output voltage is 18 Vdc.

x=24, Output voltage is 24 Vdc.

x=28, Output voltage is 28 Vdc.

x=36, Output voltage is 36 Vdc.

x=48, Output voltage is 48 Vdc.

x=53, Output voltage is 53 Vdc

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No.	TPI 300-1xa	O/P (Vdc)	O/P (A)
1	x= 12	12	25
2	x= 15	15	20
3	x= 18	18	16.66
4	x= 24	24	12.5
5	x= 28	28	10.71
6	x= 36	36	8.33
7	x= 48	48	6.25
8	x= 53	53	5.67

**Nomenclature:** (a) - Stands for 6 variables, each variable may be A through Z, 0 through 9, "-", "(", ")", ".", "/" or blank.