Certificate Number: 121621X3-A6035 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 180-112(a), TPI 180-115(a), TPI 180-118(a), TPI 180-124(a), TPI 180-128(a), TPI 180-136(a), TPI 180-148(a), TPI 180-153(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:

- 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): 282 Vrms, 488 Vpk, Primary-ES1: 282 Vrms, 488 Vpk
- The following output circuits are at ES1 energy levels : Outputs for all models except for model TPI 180-153
- The following output circuits are at ES2 energy levels : Outputs for all models TPI 180-153.
- 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
- The following end-product enclosures are required : Electrical, Fire, Mechanical
- The following magnetic devices (e.g. transformers or inductor) are provided with an OBJY2 insulation system with the indicated rating greater than Class A (105°C) : TX1 (Class B)
- The maximum continuous power supply output (Watts) relied on forced air cooling from : Forced air cooling 5 cm (6.0 CFM airflow) and the distance is 10 cm between a test corner and EUT., See Miscellaneous 7-02 for details.
- 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 transient voltage is assuming up to 2500 Vpeak for models TPI 180-1x
- 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."

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Ratings: The equipment is a building-in power supply for use in information technology equipment, consists of electronic components mounted on PCB.

Series models TPI 180-1x

x can be 12, 15, 18, 24, 28, 36, 48 and 53, to denote different output voltage rating. C01 connector used with Molex connector. Enclosure config is a OpenFrame Type. Input rating and maximum operating altitude t voltage is 100-240 Vac, altitude 5000 m..

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.

are for marketing purpose only and no impact safety related constructions and critical components.

No.	TPI 180-x	i/p	o/p (V d.c.)	o/p (A)	Max o/p (W)	Transformer	Printed Wirings Boards
1	x=12	100-240VAC, 50/60Hz, 3.0A MAX	12	15.0	180	X1	A1 +B+C1
2	x=15		15	12.0	180	X1	A1 +B+C1
3	x=18		18	10.0	180	X2	A1 +B+C1
4	x=24		24	7.5	180	X3	A1 +B+C2
5	x=28		28	6.43	180.04	X3	A1 +B+C2
6	x=36		36	5.0	180	X4	A1 +B+C3
7	x=48		48	3.75	180	X5	A1 +B+C4
8	x=53		53	3.4	180.2	X6	A1 +B+C4

No.	TPI 180-x	i/p	o/p (V d.c.)	o/p (A)	Max o/p (W)	Transformer	Printed Wirings Boards
1	x=12	100-240VAC, 50/60Hz or 120-250 VDC, or 120-370 VDC, 3.0A MAX	12	15.0	180	X1	A2 +B+C1
2	x=15		15	12.0	180	X1	A2 +B+C1
3	x=18		18	10.0	180	X2	A2 +B+C1
4	x=24		24	7.5	180	X3	A2 +B+C2
5	x=28		28	6.43	180.04	X3	A2 +B+C2
6	x=36		36	5.0	180	X4	A2 +B+C3
7	x=48		48	3.75	180	X5	A2 +B+C4
8	x=53		53	3.4	180.2	X6	A2 +B+C4

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