



Certificate Number: 201912263.4

Date: 2022-02-03

## UL CONDITIONS OF ACCEPTABILITY

**Company Name:** TRACO ELECTRONIC AG

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

**Product Description:** Switching Power Supply

**Models:** TPI 30-103Azzzzzz, TPI 30-105Azzzzzz, TPI 30-107Azzzzzz, TPI 30-109Azzzzzz, TPI 30-112Azzzzzz, TPI 30-112.1Azzzzzz, TPI 30-115Azzzzzz, TPI 30-115.1Azzzzzz, TPI 30-118Azzzzzz, TPI 30-124Azzzzzz, TPI 30-128Azzzzzz, TPI 30-136Azzzzzz, TPI 30-148Azzzzzz, TPI 30-153Azzzzzz. Where z = alphanumeric, "-", "/" or blank for marketing purposes

**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 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 in the end-use equipment.
- The end-product Electric Strength Test is to be based upon a maximum working voltage of: Primary-secondary: 272 Vrms, 648 Vpk.
- The following secondary output circuits are ES1: Output connector (for output 3.3 to 36 Vdc).
- The following secondary output circuits are ES2: Output connector (for output 48 and 53 Vdc).
- The following output circuits are at PS3 energy levels: All internal circuits
- The equipment is suitable for direct connection to: shall be evaluated in the end product.
- The power supply terminals and/or connectors are: Suitable for factory wiring only
- The maximum investigated branch circuit rating is: 20 A
- The investigated Pollution Degree is: 2
- Proper bonding to the end-product main protective earthing termination is: Required.
- An investigation of the protective bonding terminals has: Not been conducted.
- The enclosure requirement (including openings requirement and necessary mechanical tests, accessibility) shall be evaluated in the end product.
- 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 following input terminals/connectors must be connected to the end-product supply neutral: Neutral pin of connector (CON1)
- (ALL MODELS) The equipment was evaluated for a maximum operating altitude of 5000 m
- The following output terminals were referenced to neutral during performance testing: Output return will connect to earth.

**Ratings:**

Input Rating:

100-240 Vac, 50/60 Hz, 0.8 A Max.

Output Rating:

Model Name	Input Voltage Range	Max Output Current (A)	Output Voltage (Vdc)	Output Current (mA)	Max Output Power (W)	Transformer#	Note
TPI 30-103A	100-240 Vac	0.8	3.3	6000	19.8	X1	Open Type + Connector (JST)
TPI 30-105A			5	6000	30	X2	Open Type + Connector (JST)
TPI 30-107A			7.5	4000	30	X2	Open Type + Connector (JST)
TPI 30-109A			9	3340	30.06	X2	Open Type + Connector (JST)
TPI 30-112A			12	2500	30	X3	Open Type + Connector (JST)
TPI 30-112.1A			12	2500	30	X3	Open Type + Connector (JST)
TPI 30-115A			15	2000	30	X3	Open Type + Connector (JST)
TPI 30-115.1A			15	2000	30	X3	Open Type + Connector (JST)
TPI 30-118A			18	1670	30.06	X3	Open Type + Connector (JST)
TPI 30-124A			24	1250	30	X4	Open Type + Connector (JST)
TPI 30-128A			28	1080	30.24	X4	Open Type + Connector (JST)
TPI 30-136A			36	840	30.24	X5	Open Type + Connector (JST)
TPI 30-148A			48	630	30.24	X5	Open Type + Connector (JST)
TPI 30-153A			53	580	30.74	X5	Open Type + Connector (JST)