Certificate Number: 071420X3-A6018 Date: 2023-06-21

UL CONDITIONS OF ACCEPTABILITY

Company Name: TRACO ELECTRONIC AG

File-CCN: QQJQ2, QQJQ8

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

Models: TEN 20-2410WIRzzzzzz, TEN 20-2411WIRzzzzzz, TEN 20-2412WIRzzzzzz, TEN 20-2413WIRzzzzzz, TEN 20-2421WIRzzzzzz, TEN 20-2422WIRzzzzzz, TEN 20-2423WIRzzzzzz, TEN 20-4810WIRzzzzzz, TEN 20-4811WIRzzzzzz, TEN 20-4812WIRzzzzzz, TEN 20-4813WIRzzzzzz, TEN 20-4821WIRzzzzzz, TEN 20-4822WIRzzzzzz, TEN 20-4823WIRzzzzzz, TEN 20-7210WIRzzzzzz, TEN 20-7211WIRzzzzzz, TEN 20-7212WIRzzzzzz, TEN 20-7213WIRzzzzzz, TEN 20-7221WIRzzzzzz, TEN 20-7222WIRzzzzzz, TEN 20-7223WIRzzzzzz

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 end-product Electric Strength Test is to be based upon a maximum working voltage of : Input-Output: 185 Vrms / 264 Vpk
- The following output circuits are at ES1 energy levels : Output
- The following output circuits are at PS3 energy levels : Output
- The terminals of the DC/DC Converter are only suitable for factory wiring only.
- The need for suitable electrical enclosure (for ES safeguard), fire enclosure (for PS safeguard), and safeguard for thermal burn injury (for TS safeguard) is to be evaluated and provided (if necessary) in the end-product.
- Simulated Single Fault Conditions (B.4) Test was conducted with an external fuse (250Vac/6.3A). Repeated test in the end-product shall be considered if different rated protective device used.
- The DC/DC Converter provided Functional Insulation from hazardous voltage secondary circuit to ES1. The DC/DC Converter was subjected to Electric Strength Test for Basic Insulation in accordance with sub-clause 5.4.9, and single component fault testing in accordance with Annex B.4.
- The DC/DC Converter was evaluated for Functional Insulation and is intended to be installed in an isolated (non-mains) ES3 circuit which is separated from a.c. mains circuit by Double or Reinforced Insulation. Humidity Test should be considered in the end-product.
- The following output terminals were referenced to earth during performance testing: -VO or COM

Ratings: • All models are similar except for model designation, output rating, input rating, transformer, schematic, and PWB layout.

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Model Number	Input Range	Output Voltage	Output Current		Output Ripple & Noise	No Load Input Current	Eff (%)	Input Current
			Min. Load	Full Load				Full Load
TEN 20-2410WIRzzzzzz	9 - 36 VDC	3.3 VDC	0mA	4500 mA	75mVp-p	6 mA	85	1.94 A
TEN 20-2411WIRzzzzzz	9 - 36 VDC	5 VDC	0mA	4000 mA	75mVp-p	6 mA	88	2.53 A
TEN 20-2412WIRzzzzzz	9 - 36 VDC	12 VDC	0mA	1670 mA	100mVp-p	6 mA	89	2.50 A
TEN 20-2413WIRzzzzzz	9 - 36 VDC	15 VDC	0mA	1330 mA	100m Vp-p	6 mA	88	2.52 A
TEN 20-2422WIRzzzzzz	9 - 36 VDC	± 12 VDC	0mA	± 833 mA	100mVp-p	6 mA	88	±2.52 A
TEN 20-2423WIRzzzzzz	9 - 36 VDC	± 15 VDC	0mA	± 667 mA	100mVp-p	6 mA	89	±2.50 A
TEN 20-4810WIRzzzzzz	18 - 75 VDC	3.3 VDC	0mA	4500 mA	75mVp-p	4 mA	85	0.97 A
TEN 20-4811WIRzzzzzz	18 - 75 VDC	5 VDC	0mA	4000 mA	75mVp-p	4 mA	88	1.26 A
TEN 20-4812WIRzzzzzz	18 - 75 VDC	12 VDC	0mA	1670 Ma	100mVp-p	4 mA	89	1.25 A
TEN 20-4813WIRzzzzzz	18 - 75 VDC	15 VDC	0mA	1330 mA	100mVp-p	4 mA	89	1.25 A
TEN 20-4822WIRzzzzzz	18 - 75 VDC	± 12 VDC	0mA	± 833 mA	100mVp-p	4 mA	89	± 1.26 A
TEN 20-4823WIRzzzzzz	18 - 75 VDC	± 15 VDC	0mA	± 667 Ma	100mVp-p	4 mA	89	± 1.25 A
TEN 20-7210WIRzzzzzz	43 - 160 VDC	3.3 VDC	0mA	4500 mA	75mVp-p	3 mA	85	0.41 A
TEN 20-7211WIRzzzzzz	43 - 160 VDC	5 VDC	0mA	4000 mA	75mVp-p	3 mA	87	0.53 A
TEN 20-7212WIRzzzzzz	43- 160 VDC	12 VDC	0mA	1670 mA	100m Vp-p	3 mA	88	0.53 A
TEN 20-7213WIRzzzzzz	43- 160 VDC	15 VDC	0mA	1330 Ma	100m Vp-p	3 mA	89	0.52 A
TEN 20-7222WIRzzzzzz	43- 160 VDC	± 12 VDC	0mA	± 833 mA	100m Vp-p	3 mA	88	± 0.53 A
TEN 20-7223WIRzzzzzz	43- 160 VDC	± 15 VDC	0mA	± 667 Ma	100m Vp-p	3 mA	89	± 0.75

Nomenclature: N/A