

Certificate Number: 071420X3-A6003

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 8-1210zzzzzz, TEN 8-1211zzzzzz, TEN 8-1212zzzzzz, TEN 8-1213zzzzzz, TEN 8-1221zzzzzz, TEN 8-1222zzzzzz, TEN 8-1223zzzzzz, TEN 8-2410zzzzzz, TEN 8-2411zzzzzz, TEN 8-2412zzzzzz, TEN 8-2413zzzzzz, TEN 8-2421zzzzzz, TEN 8-2422zzzzzz, TEN 8-2423zzzzzz, TEN 8-4810zzzzzz, TEN 8-4811zzzzzz, TEN 8-4812zzzzzz, TEN 8-4813zzzzzz, TEN 8-4821zzzzzz, TEN 8-4822zzzzzz, TEN 8-4823zzzzzz, THD 12-1209zzzzzz, THD 12-1210zzzzzz, THD 12-1211zzzzzz, THD 12-1212zzzzzz, THD 12-1213zzzzzz, THD 12-1221zzzzzz, THD 12-1222zzzzzz, THD 12-1223zzzzzz, THD 12-2409zzzzzz, THD 12-2410zzzzzz, THD 12-2411zzzzzz, THD 12-2412zzzzzz, THD 12-2413zzzzzz, THD 12-2421zzzzzz, THD 12-2422zzzzzz, THD 12-2423zzzzzz, THD 12-4809zzzzzz, THD 12-4810zzzzzz, THD 12-4811zzzzzz, THD 12-4812zzzzzz, THD 12-4813zzzzzz, THD 12-4821zzzzzz, THD 12-4822zzzzzz, THD 12-4823zzzzzz, THD 12-2410Wzzzzzz, THD 12-2411Wzzzzzz, THD 12-2412Wzzzzzz, THD 12-2413Wzzzzzz, THD 12-2421Wzzzzzz, THD 12-2422Wzzzzzz, THD 12-2423Wzzzzzz, THD 12-4810Wzzzzzz, THD 12-4811Wzzzzzz, THD 12-4812Wzzzzzz, THD 12-4813Wzzzzzz, THD 12-4821Wzzzzzz, THD 12-4822Wzzzzzz, THD 12-4823Wzzzzzz, TEN 8-2410Wzzzzzz, TEN 8-2411Wzzzzzz, TEN 8-2412Wzzzzzz, TEN 8-2413Wzzzzzz, TEN 8-2421Wzzzzzz, TEN 8-2422Wzzzzzz, TEN 8-2423Wzzzzzz, TEN 8-4810Wzzzzzz, TEN 8-4811Wzzzzzz, TEN 8-4812Wzzzzzz, TEN 8-4813Wzzzzzz, TEN 8-4821Wzzzzzz, TEN 8-4822Wzzzzzz, TEN 8-4823Wzzzzzz, TEN 8-7210Wzzzzzz, TEN 8-7211Wzzzzzz, TEN 8-7212Wzzzzzz, TEN 8-7213Wzzzzzz, TEN 8-7221Wzzzzzz, TEN 8-7222Wzzzzzz, TEN 8-7223Wzzzzzz

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 output circuits are at ES1 energy levels : Outputs
- The following output circuits are at PS3 energy levels : Outputs
- The terminals of the DC-DC Converter are only suitable for factory wiring only.

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- 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.
- 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.
- The current rating of protective device is to be evaluated in the end-product. Simulated Abnormal Operating Conditions Test and Simulated Single Fault Conditions Test were carried out with an external slow blow fuse (6.3 A). Repeating Simulated Abnormal Operating Conditions Test and Simulated Single Fault Conditions Test in the end-product shall be considered if using different rated protective device. UL Recognized Component Fuse used and rated to at least the maximum allowable DC input voltage.
- Class of equipment will be evaluated in end-product.

Ratings: • All models are similar except for model designation, electrical ratings, dual or signal output, case and transformer construction.

Model Name42	Input Range (Vdc)	Output Voltage (Vdc)	Output Current (mA)
TEN 8-1210zzzzzz	9 ~ 18	33	2000
TEN 8-1211zzzzzz	9 ~ 18	5	1500
TEN 8-1212zzzzzz	9 ~ 18	12	666
TEN 8-1213zzzzzz	9 ~ 18	15	533
TEN 8-1221zzzzzz	9 ~ 18	± 5	± 800
TEN 8-1222zzzzzz	9 ~ 18	± 12	± 333
TEN 8-1223zzzzzz	9 ~ 18	± 15	± 267
TEN 8-2410zzzzzz	9 ~ 18	3.3	2000
TEN 8-2411zzzzzz	9 ~ 18	5	1500
TEN 8-2412zzzzzz	9 ~ 18	12	666
TEN 8-2413zzzzzz	9 ~ 18	15	533
TEN 8-2421zzzzzz	9 ~ 18	± 5	± 800
TEN 8-2422zzzzzz	9 ~ 18	± 12	± 333
TEN 8-2423zzzzzz	9 ~ 18	± 15	± 267

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Model Name	Input Range (Vdc)	Output Voltage (Vdc)	Output Current (mA)
TEN 8-4810zzzzzz	36 ~ 75	3.3	2000
TEN 8-4811zzzzzz	36 ~ 75	5	1 500
TEN 8-4812zzzzzz	36 ~ 75	12	566
TEN 8-4813zzzzzz	36 ~ 75	15	533
TEN 8-4821zzzzzz	36 ~ 75	± 5	± 800
TEN 8-4822zzzzzz	36 ~ 75	± 12	± 333
TEN 8-4823zzzzzz	36 ~ 75	± 15	±267
THD 12-1209zzzzzz	9 ~ 18	2.5	3500
THD 12-1210zzzzzz	9 ~ 18	3.3	3500
THD 12-1211zzzzzz	9 ~ 18	5.1	2400
THD 12-1212zzzzzz	9 ~ 18	12	1000
THD 12-1213zzzzzz	9 ~ 18	15	800
THD 12-1221zzzzzz	9 ~ 18	± 5	± 1200
THD 12-1222zzzzzz	9 ~ 18	± 12	± 500
THD 12-1223zzzzzz	9 ~ 18	± 15	± 400
THD 12-2409zzzzzz	18 ~ 36	2.5	3500
THD 12-2410zzzzzz	18 ~ 36	3.3	3500
THD 12-2411zzzzzz	18 ~ 36	5.1	2400
THD 12-2412zzzzzz	18 ~ 36	12	1000
THD 12-2413zzzzzz	18 ~ 36	15	800
THD 12-2421zzzzzz	18 ~ 36	± 5	± 1200
THD 12-2422zzzzzz	18 ~ 36	± 12	± 500
THD 12-2423zzzzzz	18 ~ 36	± 15	± 400

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Model Name	Input Range (Vdc)	Output Voltage (Vdc)	Output Current (mA)
THD 12-4809zzzzzzz	36 ~ 75	2.5	3500
THD 12-4810zzzzzzz	36 ~ 75	3.3	3500
THD 12-4811zzzzzzz	36 ~ 75	5.1	2400
THD 12-4812zzzzzzz	36 ~ 75	12	1000
THD 12-4813zzzzzzz	36 ~ 75	15	800
THD 12-4821zzzzzzz	36 ~ 75	± 5	± 1200
THD 12-4822zzzzzzz	36 ~ 75	± 12	± 500
THD 12-4823zzzzzzz	36 ~ 75	± 15	± 400
THD 12-2410Wlzzzzzzz	9 ~ 36	3.3	3500
THD 12-2411Wlzzzzzzz	9 ~ 36	5.1	2400
THD 12-2412Wlzzzzzzz	9 ~ 36	12	1000
THD12-2413Wlzzzzzzz	9 ~ 36	15	800
THD 12-2421Wlzzzzzzz	9 ~ 36	± 5	± 1200
THD 12-2422Wlzzzzzzz	9 ~ 36	± 12	± 500
THD 12-2423Wlzzzzzzz	9 ~ 36	± 15	± 400
THD 12-4810Wlzzzzzzz	9 ~ 36	3.3	3500
THD 12-4811Wlzzzzzzz	18 ~ 75	5.1	2400
THD 12-4812Wlzzzzzzz	18 ~ 75	12	1000
THD 12-4813Wlzzzzzzz	18 ~ 75	15	800
THD 12-4821Wlzzzzzzz	18 ~ 75	± 5	± 1200
THD 12-4822Wlzzzzzzz	18 ~ 75	± 12	± 500
THD 12-4823Wlzzzzzzz	18 ~ 75	± 15	± 400

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Model Name	Input Range (Vdc)	Output Voltage (Vdc)	Output Current (mA)
TEN 8-2410Wlzzzzzz	9 ~ 36	3.3	2400
TEN 8-2411Wlzzzzzz	9 ~ 36	5	1600
TEN 8-2412Wlzzzzzz	9 ~ 36	12	666
TEN 8-2413Wlzzzzzz	9 ~ 36	15	533
TEN 8-2421Wlzzzzzz	9 ~ 36	± 5	± 800
TEN 8-2422Wlzzzzzz	9 ~ 36	± 12	± 333
TEN 8-2423Wlzzzzzz	9 ~ 36	±15	± 267
THD 12-4813Wlzzzzzz	18 ~ 75	15	800
THD 12-4821Wlzzzzzz	18 ~ 75	± 5	± 1200
THD 12-4822Wlzzzzzz	18 ~ 75	± 12	± 500
THD 12-4823Wlzzzzzz	18 ~ 75	±15	± 400
TEN 8-4810Wlzzzzzz	18 ~ 75	3.3	2400
TEN 8-4811Wlzzzzzz	18 ~ 75	5	1600
TEN 8-4812Wlzzzzzz	18 ~ 75	12	666
TEN 8-4813Wlzzzzzz	18 ~ 75	15	533
TEN 8-4821Wlzzzzzz	18 ~ 75	± 5	± 800
TEN 8-4822Wlzzzzzz	18 ~ 75	± 12	± 333
TEN 8-4823Wlzzzzzz	18 ~ 75	± 15	± 267
TEN 8-7210Wlzzzzzz	43- 160	3.3	2400
TEN 8-7211Wlzzzzzz	43- 160	5	1600
TEN 8-7212Wlzzzzzz	43- 160	12	666
TEN 8-7213Wlzzzzzz	43- 160	15	533
TEN 8-7221Wlzzzzzz	43- 160	± 5	± 800
TEN 8-7222Wlzzzzzz	43- 160	± 12	± 333
TEN 8-7223Wlzzzzzz	43- 160	± 15	± 267

Nomenclature: N/A