

Certificate Number: 121319X3-A6033

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: THM 60-2411Wlzzzzz, THM 60-2412Wlzzzzz, THM 60-2413Wlzzzzz, THM 60-2415Wlzzzzz, THM 60-2422Wlzzzzz, THM 60-2423Wlzzzzz, THM 60-4811Wlzzzzz, THM 60-4812Wlzzzzz, THM 60-4813Wlzzzzz, THM 60-4815Wlzzzzz, THM 60-4822Wlzzzzz, THM 60-4823Wlzzzzz

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 : Output
- The following output circuits are at PS2 energy levels : All output ports (for all models except THM 60-XX11Wlzzzzz series).
- The investigated Pollution Degree is : 2
- Proper bonding to the end-product main protective earthing termination is : Not required
- The following end-product enclosures are required : Electrical, Fire, Mechanical
- - All tests were tested in series with an external fuse, manufacturer by Littelfuse, type 215 or 216, rating 10 A for THM 60-24XXWlzzzzz series; THM 60-48XXWlzzzzz series.
- 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) is to be evaluated and provided (if necessary) in the end-product.
- - The Unit is considered as reinforced insulation and intended to be supplied by an isolated or non-isolated DC source.
- The terminals of the DC-DC Converter are only suitable for factory wiring only.
- Prospective touch voltage has been considered on converter output pins, touch voltage with respect to earth may be considered in the end product.
- Electric strength tests were done based on manufacturer's specification, assuming transient voltages is 2500 Vpeak, working voltage is 2500 Vpeak/ 1500 V a.c. and nominal mains voltage is 250 Vrms (Test voltage was 5000 V a.c. for reinforced insulation between input and output, 3000 V a.c. for basic insulation between input/output and enclosure outside with/without potting compound).

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Ratings: • The DC-DC converter intended for used in Audio/video, information and communication technology equipment and consists of electronic components mounted on PWB, filled with potting compound and housed with plastic enclosure.

Model Number	V_{in}	I_{in}	V_{out}	I_{out}	P_{out}	PWB	Transformer
THM 60-2411Wlzzzzz	18 - 36 V d.c.	4.50 A	5.1 V d.c.	12 A	61.2 W	A+C	X'FM1
THM 60-2412Wlzzzzz	18 - 36 V d.c.	4.50 A	12 V d.c.	5 A	60.0 W	A+C	X'FM2
THM 60-2413Wlzzzzz	18 - 36 V d.c.	4.50 A	15 V d.c.	4 A	60.0 W	A+C	X'FM3
THM 60-2415Wlzzzzz	18 - 36 V d.c.	4.50 A	24 V d.c.	2.5 A	60.0 W	B+C	X'FM2
THM 60-2422Wlzzzzz	18 - 36 V d.c.	4.50 A	±12 V d.c.	±2.5 A	60.0 W	B+C	X'FM2
THM 60-2423Wlzzzzz	18 - 36 V d.c.	4.50 A	±15 V d.c.	±2 A	60.0 W	B+C	X'FM3
THM 60-4811Wlzzzzz	36 - 75 V d.c.	2.00 A	5.1 V d.c.	12 A	61.2 W	A+C	X'FM4
THM 60-4812Wlzzzzz	36 - 75 V d.c.	2.00 A	12 V d.c.	5 A	60.0 W	A+C	X'FM5
THM 60-4813Wlzzzzz	36 - 75 V d.c.	2.00 A	15 V d.c.	4 A	60.0 W	A+C	X'FM6
THM 60-4815Wlzzzzz	36 - 75 V d.c.	2.00 A	24 V d.c.	2.5 A	60.0 W	B+C	X'FM5
THM 60-4822Wlzzzzz	36 - 75 V d.c.	2.00 A	±12 V d.c.	±2.5 A	60.0 W	B+C	X'FM5
THM 60-4823Wlzzzzz	36 - 75 V d.c.	2.00 A	±15 V d.c.	±2 A	60.0 W	B+C	X'FM6

Nomenclature: N/A