Certificate of Conformity

(1)

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres – **UKSI 2016:1107 (as amended)**

(3) Certificate Number

EPS 22 UKEX 1 113 X **Revision 0**

(4) Equipment: Power Supply (built-in):
TSP240-124-3PAC400, TSP240-124-3PAC500, TSP480-124-3PAC400,
TSP480-124-3PAC500, TSP960-124-3PAC400, TSP960-124-3PAC500

(5) Manufacturer: Traco Power Solutions Ltd.

(6) Address: Whitemill Industrial Estate
Whitemill Road Wexford, Y35 YH66
Ireland

(7) This equipment and any acceptable variation thereto are specified in the annex to this Certificate of Conformity and the documentation therein referred to.

(8) Bureau Veritas Consumer Products Services United Kingdom Limited certifies based on a voluntary assessment that this equipment has been found to comply with the essential health and safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Schedule 1 of UKSI 2016:1107 (as amended). The examination and test results are recorded in the confidential documentation under the reference number 10TH0265.

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

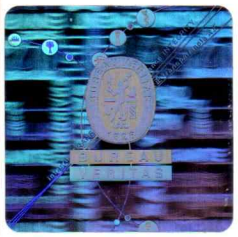
EN IEC 60079-0:2018 **EN IEC 60079-7:2015 + A1:2018** **EN IEC 60079-15:2019**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.

(11) This Certificate of Conformity relates only to the design and the construction of the specified equipment in accordance with UKSI 2016:1107 (as amended). Further requirements apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.

(12) The marking of the equipment shall include the following:

Ex II 3G Ex ec nC IIC T3 Gc



Certification department of explosion protection

Natalie Wilkinson

Warrington, 2022-05-19

Bureau Veritas Consumer Products Services United Kingdom Limited
https://www.bureauveritas.co.uk/consumer-products-testing
+44 (0) 1925 854 360

Registered Office: 31 Kingsland Grange,
Woolston, Warrington, Cheshire, WA1 4RW

Registered in England & Wales
Company Number: 00852439

(13) # Annex

(14) **Certificate of Conformity EPS 22 UKEX 1 113 X** **Revision 0**

(15) Description of Equipment:

The equipment is a power supply for built-in use (DIN rail).

The EUT is a series of switch mode power supplies for industrial applications. It is supplied from a three phase mains and provides a 24Vdc-output. The equipment is available in three power classes (240W, 480W and 960W). Each power class is available in two different versions (400V or 500V nominal input voltage). The 400V- and the 500V-version of each power class are identical except of the differences listed below. PCB layouts, principal transformer construction, circuit diagrams, mechanical construction, etc. is identical. The differences are the ratings of primary components.

All devices are designed for installation in an enclosure providing protection against electrical, mechanical and fire hazards and are intended for general use such as in industrial control, process control, power distribution and instrumentation equipment.

Revision 0: Initial issue.

Electrical data:

TSP240-124-3PAC400 Input: 3 x 400V AC | 0.50A | 50/60Hz Output: 24V DC | 10A	**TSP240-124-3PAC500** Input: 3 x 500V AC | 0.40A | 50/60Hz Output: 24V DC | 10A
TSP480-124-3PAC400 Input: 3 x 400V Ac | 0.96A | 50/60Hz Output: 24Vdc; 20A	**TSP480-124-3PAC500** Input: 3 x 500V AC | 0.75A | 50/60Hz Output: 24V DC | 20A
TSP960-124-3PAC400 Input: 3 x 400 V AC | 1.90A | 50/60Hz Output: 24 V DC | 40A	**TSP960-124-3PAC500** Input: 3x500 V AC | 1.50A | 50/60Hz Output: 24V DC | 40A

(16) Reference number: 10TH0265

(17) Special conditions for safe use:

- The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP54 in accordance with EN IEC 60079-0 and EN IEC 60079-15.
- The equipment shall only be used in an area of not more than pollution degree 2, as defined in EN 60664-1.
- Special ambient temperature range: -25 °C to +70 °C
- Output power de-rating conditions at high ambient temperatures must be considered.
  - 400V-versions: 100% load from 360-440V; 75% load below 360V (min. 330V)
  - 500V-versions: 100% load from 450-550V; 75% load below 450V (min. 410V)
  - The temperature derating is added to the input voltage derating above +55 °C.

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Certificate of Conformity EPS 22 UKEX 1 113 X **Revision 0**

(18) Essential health and safety requirements:

Met by compliance with standards.

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