



1 **TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **CSANe 21ATEX3002X** Issue: **0**

4 Equipment: **PRO TOP series Power Supplies**

5 Applicant: **Weidmüller Interface GmbH & Co. KG**

6 Address: **Klingenbergstrasse 26
32758 Detmold,
GERMANY**

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 CSA Group Netherlands B.V., certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design of Category 3 equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN IEC 60079-0:2018 EN 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 Specific Conditions of Use identified in the schedule to this certificate.

11 This Type Examination Certificate relates only to the design of the specified equipment, and not to specific items of equipment subsequently manufactured. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 3G

Ex ec nC IIC T4 Gc

Ta = -40°C...+70°C

Project Number 80043286

Signed: J A May

Title: Director of Operations

CSA Group Netherlands B.V.
Utrechtseweg 310, Building B42,
6812AR, The Netherlands

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SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

Model Numbers

Model	Input			Output		Temperature
	V	Hz	A	VDC	A	
PRO TOPDC 24V/24V 5A EX	24 VDC	-	5.7	24	5	-40°C...+60°C, +60°C...+70°C (Derating:2.5%/K)
PRO TOPDC 24V/24V 10A EX	24 VDC	-	11	24	10	-40°C...+60°C, +60°C...+70°C (Derating:2.5%/K)
PRO TOPDC 24V/24V 20A EX	24 VDC	-	22	24	20	-40°C...+60°C, +60°C...+70°C (Derating:2.5%/K)
PRO TOP2 120W 24V 5A UW EX	100~240 VAC	50-60	2.0-1.0	24	5	-40°C...+60°C, +60°C...+70°C (Derating:2.5%/K)
	Y 230/400- 500VAC, 2W+PE	50-60	0.7-0.5			
PRO TOP2 240W 24V 10A UW EX	100~240 VAC	50-60	3-1.3	24	10	-40°C...+60°C, +60°C...+70°C (Derating:2.5%/K)
	Y 230/400- 500VAC, 2W+PE	50-60	1.4-0.8			

The PRO TOP series Power Supplies are assessed for type of protection "increase safety" Ex ec and include a sealed device (relay) with type of protection Ex nC. They include PRO TOPDC series which are designed for connection to DC network and PRO TOP2 series connected to AC network.

The switching power supply is EPL Gc intended for use in Explosive Atmosphere classified as Zone 2.

The PRO TOP series power supplies are built-in device with degree of protection IP20. The enclosure is made of hot galvanized sheet and the front panel has two LEDs, an on/off switch and a potentiometer which cannot be adjusted unless area is known to be non-hazardous. There are several PCBs within the enclosure and they have functions of output over-current protection, output over-voltage protection, output short circuit protection etc.

A communication device, model PRO COM CAN OPEN EX, is optional for the PRO TOP series Power Supply. When it is used, it will be installed in a suitable certified enclosure together with the PRO TOP series Power Supply. The requirements are valid for "Single power supply" and "Single power supply with the communication device (PRO COM CAN OPEN EX)".

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	28 May 2021	R80043286A	The release of the prime certificate.

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- 15 **SPECIFIC CONDITIONS OF USE** (denoted by X after the certificate number)
- 15.1 The equipment shall be mounted within a tool-secured suitably-certified enclosure providing a degree of protection not less than IP54 in accordance with IEC 60079-0 and IEC 60079-7.
- 15.2 When in use, do not adjust the switch and Potentiometer unless the area is known to be non-hazardous.
- 16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)**
- The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.
- 17 **CONDITIONS OF MANUFACTURE**
- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Certificates.
- 17.2 Holders of Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.
- 17.3 For models PRO TOPDC 24V24V 5A EX, PRO TOPDC 24V24V 10A EX and PRO TOPDC 24V24V 20A EX, a potential of 500V ac r.m.s. should be applied between its all terminals and the metal enclosure, for a period of at least 60 seconds, without breakdown.
- Notes:
1. A potential of 700V dc may alternatively be applied for a period of at least 60 seconds.
 2. As an alternative, a test shall be carried out at 1.2 times the test voltage, but maintained for at least 100ms.
- 17.4 For models PRO TOP2 120W 24V 5A UW EX and PRO TOP2 240W 24V 10A UW EX, a potential of 2000V ac r.m.s. between input terminals and the metal enclosure, and a potential of 500Vac r.m.s. between other terminals and the metal enclosure, for a period of at least 60 seconds, without breakdown.
- Notes:
1. A potential of 2800V dc may alternatively be applied for a period of at least 60 seconds.
 2. As an alternative, a test shall be carried out at 1.2 times the test voltage, but maintained for at least 100ms.

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Certificate Annexe



Certificate Number: CSANe 21ATEX3002X
 Equipment: PRO TOP series Power Supplies
 Applicant: Weidmüller Interface GmbH & Co. KG

Issue 0

Drawing	Sheets	Rev.	Date (Stamped)	Title
D606AEX	1 of 1	V01	25 Feb 21	PRO TOPDC 24V/24V 5A EX explosive view
D606AExV01-00	1 of 1	V01-00	25 Feb 21	PRO TOPDC 24V/24V 5A EX general assembly drawing
D606AExV05A	1 to 2	V05A	26 Feb 21	PRO TOPDC 24V/24V 5A EX Label
D606A-D (-01 to -05)	1 to 5	V02A	25 Feb 21	D606A schematic diagram
D606A-PCB (-01 to -06)	1 to 6	V0.3A	25 Feb 21	D606A PCB layout
D606A BOM list	1 to 11	V07	25 Feb 21	PRO TOPDC 24V/24V 5A EX BOM
D605AEX	1 of 1	V02	25 Feb 21	PRO TOPDC 24V/24V 10A EX explosive view
D605AExV02-00	1 of 1	V02-00	25 Feb 21	PRO TOPDC 24V/24V 10A EX general assembly drawing
D605AExV04A	1 to 2	V04A	26 Feb 21	PRO TOPDC 24V/24V 10A EX Label
D605A-D (-01 to -05)	1 to 5	V04A	25 Feb 21	D605A schematic diagram
D605A-PCB (-01 to -06)	1 to 6	V0.3A	25 Feb 21	D605A PCB layout
D605A BOM list	1 to 11	V07	25 Feb 21	PRO TOPDC 24V/24V 10A EX BOM
D603AEX	1 of 1	V05	25 Feb 21	PRO TOPDC 24V/24V 20A EX explosive view
D603AExV05-00	1 of 1	V05-00	25 Feb 21	PRO TOPDC 24V/24V 20A EX general assembly drawing
D603AExV03A	1 to 2	V03A	26 Feb 21	PRO TOPDC 24V/24V 20A EX Label
D603A-D (-01 to -05)	1 to 5	V02	25 Feb 21	D603A schematic diagram
D603A-PCB (-01 to -06)	1 to 6	V0.7A	25 Feb 21	D603A PCB layout
D603A BOM list	1 to 16	V09	25 Feb 21	PRO TOPDC 24V/24V 20A EX BOM
A1151AEX	1 of 1	V04	25 Feb 21	PRO TOP2 120W 24V 5A UW EX explosive view
A1151AExV03-00	1 of 1	V03-00	25 Feb 21	PRO TOP2 120W 24V 5A UW EX general assembly drawing
A1151AExV03A	1 to 2	V03A	26 Feb 21	PRO TOP2 120W 24V 5A UW EX Label
A1151A-D (-01 to -05)	1 to 5	V03A	25 Feb 21	A1151A schematic diagram
A1151A-PCB (-01 to -06)	1 to 6	V0.3A	25 Feb 21	A1151A PCB layout
A1151A BOM list	1 to 16	V03	25 Feb 21	PRO TOP2 120W 24V 5A UW EX BOM
A1152AEX	1 of 1	V04	26 Feb 21	PRO TOP2 240W 24V 10A UW EX explosive view
A1152AExV02-00	1 of 1	V02-00	25 Feb 21	PRO TOP2 240W 24V 10A UW EX general assembly drawing
A1152AExV02A	1 to 2	V02A	26 Feb 21	PRO TOP2 240W 24V 10A UW EX Label
A1152A-D (-01 to -05)	1 to 5	V05	25 Feb 21	A1152A schematic diagram
A1152A-PCB (-01 to -06)	1 to 6	V0.4A	25 Feb 21	A1152A PCB layout
A1152A BOM list	1 to 24	V04	25 Feb 21	PRO TOP2 240W 24V 10A UW EX BOM
450093	1 of 1	2	25 Feb 21	SERIAL NUMBER / DATE CODE
63555	1 to 9	02	22 Apr 21	PCBA PROTOP-COMM35 SUB-ASSEMBLY
63556	1 to 12	03	22 Apr 21	PCB PROTOP-COMM35 PRINTED CIRCUIT BOARD
66249	1 to 5	3	22 Apr 21	PRO COM CAN OPEN EX COMMUNICATION MODULE CAN OPEN
Q560AEX BOM list	1 to 3	V04	22 Apr 21	PRO COM CAN OPEN EX BOM

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