# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION
### IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

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|---|---|---|---|
| Certificate No.: | **IECEx SIQ 23.0006X** | Page 1 of 3 | Certificate history: |
| Status: | **Current** | Issue No: 0 | |
| Date of Issue: | 2024-03-01 | | |
| Applicant: | **Hans Turck GmbH & CO KG**<br>Witzlebenstraße 7<br>D-45472 Mülheim an der Ruhr<br>**Germany** | | |
| Equipment: | **Power Supply Unit, types: IM12-PS2412-U-U-PR/W3 and IM12-PS2412-U-U-PR/W3/CC** | | |
| Optional accessory: | | | |
| Type of Protection: | **Increased safety** | | |
| Marking: | Ex ec IIC T4 Gc | | |

Approved for issue on behalf of the IECEx Certification Body: **Bojan Pečavar**

Position: **Certification Manager**

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

**Slovenian Institute of Quality and Metrology (SIQ)**
**Masera-Spasiceva ulica 10**
**SI-1000 Ljubljana**
**Slovenia**

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Certificate No.: **IECEx SIQ 23.0006X**

Date of issue: 2024-03-01

Issue No: 0

Manufacturer: **Hans Turck GmbH & CO KG**
Witzlebenstraße 7
D-45472 Mülheim an der Ruhr
**Germany**

Manufacturing locations: **inpotron Schaltnetzteile GmbH**
Hebelsteinstraße 5, 78247 Hilzingen
**Germany**

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

**STANDARDS** :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

**TEST & ASSESSMENT REPORTS:**
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

SI/SIQ/ExTR23.0007/00

Quality Assessment Report:

DE/PTB/QAR06.0013/11

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**EQUIPMENT:**
Equipment and systems covered by this Certificate are as follows:

Power supply unit, types: IM12-PS2412-U-U-PR/W3 and IM12-PS2412-U-U-PR/W3/CC, is an Ex equipment, intended for installation on the DIN rail in final enclosure with degree of ingress protection at least IP54 according to IEC 60079-0 and IEC 60079-7. Power supply unit can be installed in vertical and horizontal position as specified in Specific Conditions of Use.

Power supply unit has plastic enclosure with degree of ingress protection of IP20. It is designed in type of protection "ec". It has external terminals for mains input voltage and external connector for output circuits on the rear side.

Type key:

- IM12-PS2412-U-U-PR/W3 … input terminals with screw clamp
- IM12-PS2412-U-U-PR/W3/CC … input terminals with spring-loaded clamp

Electrical ratings:

| | |
|---|---|
| Input: | 100 V – 240 V a.c., 50 Hz / 60 Hz |
| Output: | 24 V d.c., 500 mA, 12 W |

**SPECIFIC CONDITIONS OF USE: YES as shown below:**

- Power supply unit shall be installed in appropriate IP54 enclosure according to IEC 60079-0 and IEC 60079-7. This can be assured by enclosure in type of protection "ec" or "eb".
- Ambient temperature (air temperature below the Power supply unit) shall not exceed +70°C.
- Power supply unit can be installed on DIN rail in vertical or horizontal position.
- In case of installation of adjacent component nearby the Power supply unit (PSU) following shall be assured:
  - For vertical position (horizontal DIN rail): Up to 3 modules (e.g. IMX12-AI…) can be installed on one side of the Power supply unit. The distance from such block (PSU + max. 3 modules) to other components shall be at least 7 mm (left, right) and 30 mm (bottom, top). Maximum dissipation power (heat loss) of the nearest adjacent module shall not exceed 4 W.
  - For horizontal position (vertical DIN rail): Up to 3 modules (e.g. IMX12-AI…) can be installed on top side of the Power supply unit. The distance from such block (PSU + max. 3 modules) to other components shall be at least 7 mm (bottom, top) and 30 mm (left, right). Maximum dissipation power (heat loss) of the nearest adjacent module shall not exceed 3 W.
- Connector/terminal (output and input) shall not be separated when energized. It can be separated with delay of at least 0.5 minute after de-energizing of the power supply.
- Metal clamping device shall be earthed by DIN rail, which is connected to earth.