



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX BVS 18.0004X** issue No.: **0** Certificate history: \_\_\_\_\_

Status: **Current**

Date of Issue: **2018-02-12** Page 1 of 3

Applicant: **G.M. International S.R.L.**  
Via Mameli 53/55  
20852 Villasanta (MB)  
Italy

Equipment: **Power Supply type PSD1220, PSD1220-xxx, PSD1220-098**  
Optional accessory:

Type of Protection: **Equipment protection by intrinsic safety "i", Equipment protection by type of protection "n", Equipment protection by increased safety "e"**

Marking: **Ex ec nC ic IIC T4 Gc**

Approved for issue on behalf of the IECEx  
Certification Body:

Dr Franz Eickhoff

Position:

Deputy Head of Certification Body

Signature:  
(for printed version)

  
\_\_\_\_\_  
2018-02-12

Date:

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**DEKRA EXAM GmbH**  
Dinnendahlstrasse 9  
44809 Bochum  
Germany



**On the safe side.**



# IECEX Certificate of Conformity

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Manufacturer: **G.M. International S.R.L.**  
Via Mameli 53/55  
20852 Villasanta (MB)  
Italy

Additional Manufacturing location(s):

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 apparatus 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:

<b>IEC 60079-0 : 2011</b> Edition: 6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-11 : 2011</b> Edition: 6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-15 : 2010</b> Edition: 4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
<b>IEC 60079-7 : 2015</b> Edition: 5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

*This Certificate does not indicate compliance with electrical 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:  
DE/BVS/ExTR18.0008/00

Quality Assessment Report:  
NO/DNV/QAR07.0005/08



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

#### Subject and Type:

Power supply devices type PSD1220, type PSD1220-xxx, type PSD1220-098  
'-xxx' = non Ex-relevant details of construction and / or function.

#### Description:

The power supply devices are designed as stand-alone power supply units comprising of a light alloy enclosure mountable on T35 DIN rails.  
Each device provides terminals for DC 23.6 – 26.1 V, 20 A output, for AC supply input, fault indicator (power good relay contact) and for load current sharing bus signal in case of paralleled operation.  
Internal circuitry of directly accessible output voltage adjust-potentiometer complies with level of protection Ex ic IIC. There are no other intrinsically safe circuits.  
PSD1220 provides plug-in spring connection terminal blocks, PSD1220-098 provides plug-in screw connection terminal blocks.

#### Parameters

See Annex

Listing of all components used referring to other standards

See Annex

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

- The power supply devices shall be installed
- in an enclosure corresponding at least to EPL Gc according IEC 60079-0 / IEC 60079-7 and providing degree of IP protection IP54 according to IEC 60529;
  - or
  - in a controlled environment providing pollution degree 2 according to IEC 60664-1.



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**Annex**  
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## Parameters

PSD1220 / PSD1220-xxx / PSD1220-098	Input (AC)	Output (DC)	Power good relay contact
Rated voltage	$100\text{ V} \leq U \leq 264\text{ V}$	$23.6\text{ V} \leq U \leq 26.1\text{ V}$	AC / DC 50 V
Frequency range	$48\text{ Hz} \leq f \leq 62\text{ Hz}$		
Nominal current	4.8 A (100 V) 2.5 A (230 V)	20 A	AC / DC 2 A
Nominal power dissipation	35 W (230 V) 43 W (115 V)		
Maximum output power		520 W	
Maximum switched power			100 VA / 60 W

Ambient temperature range:  $-40\text{ °C} \leq T_a \leq +60\text{ °C}$  (de-rated linearly to 75 - 80 % load above +50 °C)

Listing of all components used referring to other standards

Subject and type	IECEX TEST REPORT	Standards
Relays for PCB mounting	IT/IMQ/ExTR13.0011/01	IEC 60079-0:2011, 6 <sup>th</sup> Edition; IEC 60079-15:2010, 4 <sup>th</sup> Edition