

Translation

1 **Type Examination Certificate**

2 Equipment intended for use in potentially explosive atmospheres
Directive 2014/34/EU

3 Type Examination Certificate Number: **BVS 18 ATEX E 004 X**

4 Product: **Power Supply type PSD1220, PSD1220-xxx, PSD1220-098**

5 Manufacturer: **G.M. International S.R.L.**

6 Address: **Via Mameli 53/55, 20852 Villasanta (MB), Italy**

7 This product and any acceptable variations thereto are specified in the appendix to this certificate and the documents referred to therein.

8 DEKRA EXAM GmbH certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in the confidential Report No. BVS PP 18.2014 EU.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

| | |
|-----------------------------------|-------------------------------|
| EN 60079-0:2012 + A11:2013 | General requirements |
| EN 60079-7:2015 | Increased Safety "e" |
| EN 60079-11:2012 | Intrinsic Safety "i" |
| EN 60079-15:2010 | Type of Protection "n" |

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the appendix to this certificate.

11 This Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following:

 **II 3G Ex ec nC ic IIC T4 Gc**

DEKRA EXAM GmbH
Bochum, 2018-01-31

Signed: Dr Franz Eickhoff

Certifier

Signed: Dr Michael Wittler

Approver

13 Appendix

14 Type Examination Certificate BVS 18 ATEX E 004 X

15 Product description

15.1 Subject and type

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

15.2 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.

Listing of all components used referring to older standards: not applicable.

15.3 Parameters

15.3.1 PSD1220 / PSD1220-xxx / PSD1220-098

| Parameter | 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 |

15.3.2 Ambient temperature range:

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

16 **Report Number**

BVS PP 18.2014 EU, as of 2018-01-31

17 **Special Conditions for Use**

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

18 **Essential Health and Safety Requirements**

The Essential Health and Safety Requirements are covered by the standards listed under item 9.

19 **Drawings and Documents**

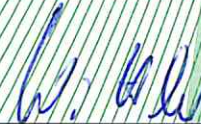
Drawings and documents are listed in the confidential report.

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

DEKRA EXAM GmbH
Bochum, dated 2018-01-31
BVS-Scha/Nu A 20170925



Certifier



Approver