

CERTIFICATE

(1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **DEKRA 20ATEX0002** Issue Number: **0**

(4) Product: **Battery Container Type 8316/2.-.-.-.-.**

(5) Manufacturer: **R. STAHL Schaltgeräte GmbH**

(6) Address: **Am Bahnhof 30, 74638 Waldenburg, Germany**

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

(8) DEKRA Certification B.V., Notified Body number 0344 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 confidential test report number NL/DEK/ExTR20.0024/00.

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

EN IEC 60079-0 : 2018

EN 60079-7 : 2015 + A1 : 2018

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-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 2 G Ex eb IIC T6 or T5 Gb

Date of certification: 15 September 2021

DEKRA Certification B.V.

T. Pijpker
Certification Manager



(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 20ATEX0002**

Issue No. 0

(15) **Description**

The Battery Containers Type 8316/2... for stationary use, consist of plastic enclosures which contain a number of batteries. The Battery Containers are used as an alternative power supply in potentially explosive atmospheres.

Ambient temperature range -20 °C to +40 °C (for temperature class T6) or +55 °C (T5).

The range comprises battery containers of similar design, varying internal dimensions and have a rated voltage and rated capacity, as shown in the table below.

Enclosure				Installed battery		
Type	Dimensions (mm)	Rated voltage	Rated capacity	Battery configuration per enclosure	Ventilation per enclosure	Battery model per enclosure
8146/.073	340,5 x 170 x 150	12 V	2 Ah	1x 12 V / 2 Ah	2x Size 1 ¹⁾	1x A512/2 S
8146/.073	340,5 x 170 x 150	24 V	2 Ah	2x 12 V / 2 Ah, in series	2x Size 1 ¹⁾	2x A512/2 S
8146/.073	340,5 x 170 x 150	12 V	10 Ah	1x 12 V / 10 Ah	2x Size 1 ¹⁾	1x A512/10 S
8146/.086	340,5 x 340,5 x 230	12 V	40 Ah	1x 12 V / 40 Ah	6x Size 2 ³⁾	1x A512/40 A
8146/.086	340,5 x 340,5 x 230	12 V	60 Ah	1x 12 V / 60 Ah	6x Size 2 ³⁾	1x A512/60 A
8146/.083	340,5 x 340,5 x 150	24 V	10 Ah	2x 12 V / 10 Ah, in series	4x Size 2 ²⁾	2x A512/10 S
8146/.085	340,5 x 340,5 x 190	12 V	24 Ah	1x 12 V / 25 Ah	6x Size 2 ³⁾	1x A512/25 G5
8146/.095	681,5 x 340,5 x 190	24 V	24 Ah	2x 12 V / 25 Ah, in series	6x Size 2 ³⁾	2x A512 / 25 G5
2 x 8146/.086	2 x 340,5 x 340,5 x 230	24 V	40 Ah	1x 12 V / 40 Ah	6x Size 2 ³⁾	1x A512 / 40 A.
2 x 8146/.086	2 x 340,5 x 340,5 x 230	24 V	60 Ah	1x 12 V / 60 Ah	6x Size 2 ³⁾	1x A512 / 60 A

1) one ventilation on the cover above, one below

2) two ventilations on the cover above, two below

3) two ventilations on the cover above, two in the middle and two below

The battery containers may house a range of batteries consisting of Sonnenschein VRLA type, as shown in the table below.

Cell / battery type	Chemistry	Capacity range (Ah)
A500	Lead-acid VRLA	2 - 60

Valve Regulated Lead Acid (VRLA) secondary batteries according to IEC 60079-0, listed in Table 7. Operating of the batteries – especially the charging – is carried out according to the manufacturer's data. Additional data is stated in the battery manufacturer's instructions resp. the data sheets.

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According to IEC 60079-7, par. 5.6.4 charging in hazardous locations is only permitted if the charging circuit is fully specified as part of the equipment and if the charging system do not exceed the limits of the charger voltage and current specified by the manufacturer in case of a single malfunction.

Batteries are retained internally by a metallic framework.

Cable transfer into and out of the enclosure is facilitated by suitable Ex certified cable glands mounted directly in the enclosure wall and will be connected to terminals in the suitable separately certified Ex eb terminal box who are fitted to the enclosure for connection of the field wiring. An Ex certified temperature sensor, thermostat or heating may be mounted in the container.

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

No. NL/DEK/ExTR20.0024/00.

(17) **Specific conditions of use**

None.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/DEK/ExTR20.0024/00.

(20) **Certificate history**

Issue 0 - 224013300 initial certificate