

(1) **EC-TYPE EXAMINATION CERTIFICATE**

(2) Equipment or protective system intended for use in potentially explosive atmospheres - Directive 94/9/EC

(3) EC-Type Examination Certificate Number: **KEMA 03ATEX2446 X**

(4) Equipment or protective system: **Battery Containers, Series BC.-.....**

(5) Manufacturer: **Electromach B.V., Member of the R. STAHL Technology Group**

(6) Address: **Hamerstraat 10, 7556 MZ Hengelo, The Netherlands**

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

(8) KEMA Quality B.V., notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the directive.

The examination and test results are recorded in confidential report no. 2037276.

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

**EN 50014 : 1997    EN 50019 : 2000**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment or protective system according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

(12) The marking of the equipment or protective system shall include the following:

 **II 2 G    EEx e II T6**

Arnhem, 23 December 2003  
KEMA Quality B.V.

  
C.G. van Es  
Certification Manager

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## SCHEDULE

(13)

(14)

### to EC-Type Examination Certificate KEMA 03ATEX2446 X

(15) **Description**

The Battery Containers Series BC.-....., for stationary use, consist of sheet steel enclosures which contain a number of batteries as specified in the Schedule of Limitations attached to this certificate. The electrical connection is made by direct entry.

Ambient temperature range -20 °C to +40 °C.

**Type designation**

BCa-b.c.d.e : a = first letter of cell or battery manufacturer  
bcd = battery container dimensions in cm (length x width x height)  
e = battery type

**Electrical data**

The data are dependent on the built-in batteries and are to be taken from the attached Schedule of Limitations.

**Degree of protection**

Degree of protection according to EN 60529: IP 43.

**Routine tests**

Each battery container, ready for use, shall be submitted to a routine insulation test according to EN 50019, clause 7.2, using a test voltage of at least 100 V. The insulation resistance shall be at least 1 Mohm between the live parts and the battery container.

(16) **Report**

KEMA No. 2037276.

(17) **Special conditions for safe use**

Charging in a hazardous area is allowed. The safety limits specified by the battery manufacturer shall be maintained. Precautions must be taken that the maximum allowed charging voltage and current are not exceeded.

Charging with higher current is allowed only outside the hazardous area or under non-hazardous conditions.

The battery containers are for stationary use only.

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

Covered by the standards listed at (9).

(19) **Test documentation**

1. Certificates of Conformity KEMA Nos. Ex-99.E.2419 X, Ex-00.E.2135 X, including Amendments 1 to 8 and Ex-02.E.2197 X and the associated test documentation.

dated

2. Drawing No. 1000-04 (2 sheets)

17.12.2003

## SCHEDULE OF LIMITATIONS

to EC-Type Examination Certificate KEMA 03ATEX2446 X

Issue No. 12

Manufacturer: **Electromach B.V.**

Address: **Jan Tinbergenstraat 193, 7559 SP Hengelo, The Netherlands**

### Battery container Series BC.-.... specifications

| Size (mm)          | Maximum allowed capacity (Ah) | Voltage (V) |
|--------------------|-------------------------------|-------------|
| 360 x 360 x 150    | 3,5                           | 24          |
| 520 x 350 x 500    | 115                           | 12          |
| 520 x 350 x 500    | 50                            | 24          |
| 600 x 500 x 800    | 180                           | 12          |
| 690 x 560 x 500    | 200                           | 24          |
| 800 x 600 x 600    | 200                           | 24          |
| 830 x 560 x 900    | 960                           | 12          |
| 830 x 620 x 800    | 240                           | 12          |
| 850 x 850 x 800    | 500                           | 24          |
| 900 x 850 x 800    | 230                           | 24          |
| 1050 x 890 x 1100  | 1200                          | 24          |
| 1100 x 850 x 800   | 480                           | 24          |
| 1100 x 800 x 900   | 735                           | 24          |
| 1100 x 1100 x 1000 | 1400                          | 24          |
| 1200 x 1100 x 850  | 214                           | 24          |
| 1200 x 1650 x 850  | 1800                          | 24          |
| 1300 x 800 x 800   | 440                           | 24          |
| 1300 x 850 x 800   | 460                           | 24          |
| 1400 x 1050 x 900  | 1920                          | 24          |
| 1500 x 600 x 1000  | 960                           | 24          |
| 1500 x 1000 x 900  | 200                           | 24          |
| 1600 x 650 x 1100  | 1110                          | 24          |
| 1700 x 800 x 1200  | 1500                          | 24          |
| 1800 x 800 x 800   | 1000                          | 14          |
| 1900 x 1050 x 900  | 2800                          | 24          |
| 2025 x 1500 x 900  | 1110                          | 48          |
| 2545 x 1155 x 650  | 92                            | 192 + 384   |

## SCHEDULE OF LIMITATIONS

to EC-Type Examination Certificate KEMA 03ATEX2446 X

Issue No. 12

### Battery type

| Manufacturer | Type or Series       | Cell type |
|--------------|----------------------|-----------|
| Sonnenschein | A200                 | Lead-acid |
| Sonnenschein | A500                 | Lead-acid |
| Sonnenschein | A600 OpzV Solar      | Lead-acid |
| Sonnenschein | S12 Solar            | Lead-acid |
| Sonnenschein | SB12 Solar Block     | Lead-acid |
| Exide        | Powerfit S300        | Lead-acid |
| Exide        | EC                   | Lead-acid |
| Exide        | Maxxima 900          | Lead-acid |
| BP Solar     | PVstor               | Lead-acid |
| Hawker       | Powersafe            | Lead-acid |
| Hawker       | Perfect Plus         | Lead Acid |
| Absolyte     | II P                 | Lead-acid |
| Hoppecke     | FNC                  | Ni-Cd     |
| Alcad        | HC100P               | Ni-Cd     |
| Saft Sunica  | SUN 21-2             | Ni-Cd     |
| Saft         | SBLE                 | Ni-Cd     |
| Saft         | Sunica plus Sun+1110 | Ni-Cd     |
| Alcad        | VN95-2               | Ni-Cd     |
| Energys      | Odyssey PC 545       | Lead-acid |
| Energys      | Odyssey PC 925       | Lead-acid |
| Energys      | Odyssey PC 2150T     | Lead-acid |
| Energys      | PowerSafe SBS C11F   | Lead-acid |

Arnhem, 1 May 2013  
DEKRA Certification B.V.



T. Pijpker  
Certification Manager

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