

## Battery Range Summary

SuperSafe® OPzV batteries are suitable for a broad range of applications including telecommunications, power generating stations and distribution systems, renewable energies, railway, airport and seaport signalling, automation and measuring systems.

The SuperSafe OPzV range of valve regulated lead-acid batteries uses a proven combination of gel and tubular technologies to offer a very high level of reliability. These single cells benefit from an optimised plate design that gives capacities in excess of the DIN standard values. In addition, the SuperSafe OPzV range of batteries offers both an excellent float life and a high cycle life for a truly flexible solution.



### Features & Benefits

- Capacity range: 320Ah to 1600Ah
- C<sub>10</sub> capacities exceed the DIN standard values
- 20 year design life at 20°C
- Excellent deep discharge recovery and cyclability
- Superior operational safety with fully insulated connectors, immobilised electrolyte and one way pressure relief valve with an integral flame arrestor
- Easy installation: vertical or horizontal position
- 12 month storage life (20°C)
- Very low maintenance: no water addition

### Construction

- Positive electrode - tubular plate with lead-tin-calcium alloy
- Negative electrode - flat plate with lead-calcium alloy grid
- Separator - low resistance microporous material
- Case material - container and lid in ABS
- Electrolyte - sulphuric acid, immobilised as a gel
- Terminal design - terminals with brass insert and M10 stainless steel bolts. Coloured washers are provided for easy polarity recognition
- Pressure relief valve - one way valve with integral flame arrestor

### Installation & Operation

- Recommended float charge voltage: 2.25Vpc (20°C)
- Cells can be installed horizontally to minimize use of floor space
- Optional racking offers easy installation and space saving accommodation

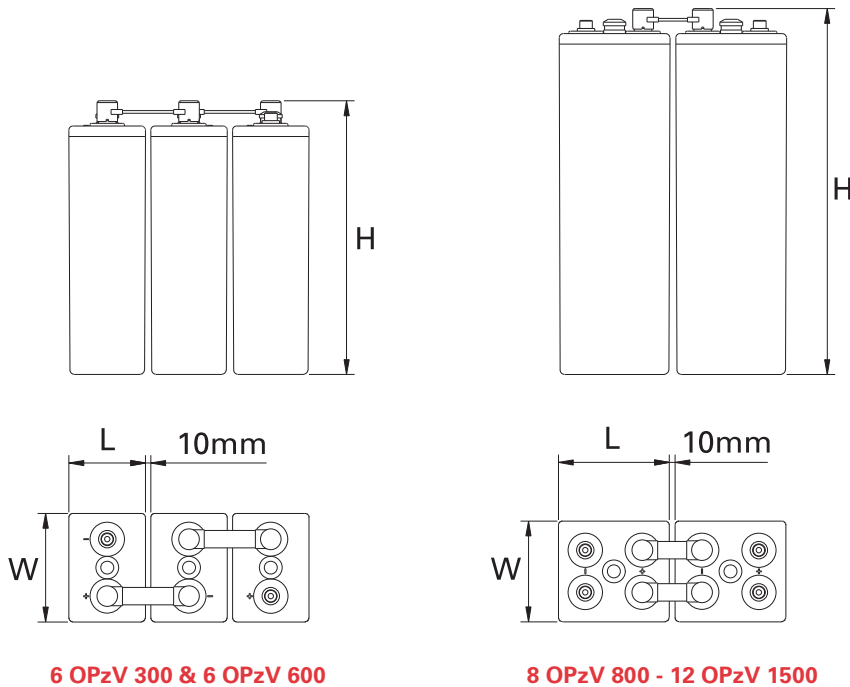
### Standards

- Tested according to international standard IEC 60896-21 and compliant to defined requirements of IEC 60896-22
- Conforms to the DIN standard 40742 (valve regulated OPzV single cells)
- Classified as "Very Long Life" (> 12 years) according to the Eurobat guide 2015
- Proof against deep discharge according to DIN 43539 Part 5
- Batteries must be installed in accordance with the IEC 62485-2 standard and national regulations
- The management systems governing the manufacture of SuperSafe® OPzV products are ISO 9001, ISO 14001 and ISO 18001 certified

### General Specifications

| Battery Type        | Nominal Voltage (V) | Terminal Pairs | Nominal Capacity (Ah)        |                               | Nominal Dimensions (mm) |       |                | Typical Weight (Kg) | Short Circuit Current (A) | Internal Resistance (mΩ) |
|---------------------|---------------------|----------------|------------------------------|-------------------------------|-------------------------|-------|----------------|---------------------|---------------------------|--------------------------|
|                     |                     |                | 10 hr rate to 1.80Vpc @ 20°C | 120 hr rate to 1.85Vpc @ 25°C | Length                  | Width | Overall Height |                     |                           |                          |
| <b>6 OPzV 300</b>   | 2                   | 1              | 320                          | 445                           | 145                     | 206   | 403            | 28.0                | 3175                      | 0.66                     |
| <b>6 OPzV 600</b>   | 2                   | 1              | 705                          | 968                           | 145                     | 206   | 695            | 50.0                | 3796                      | 0.55                     |
| <b>8 OPzV 800</b>   | 2                   | 2              | 940                          | 1284                          | 210                     | 191   | 695            | 68.0                | 5200                      | 0.40                     |
| <b>10 OPzV 1000</b> | 2                   | 2              | 1170                         | 1608                          | 210                     | 233   | 695            | 82.0                | 6460                      | 0.32                     |
| <b>12 OPzV 1200</b> | 2                   | 2              | 1410                         | 1932                          | 210                     | 275   | 695            | 97.0                | 7675                      | 0.27                     |
| <b>12 OPzV 1500</b> | 2                   | 2              | 1600                         | 2196                          | 210                     | 275   | 845            | 120.0               | 7510                      | 0.28                     |

### Outline Drawings



*Note:*  
The electrical values shown in the table relate to loadings from a fully charged condition at ambient temperature of +20°C. Height shown is overall height, including connectors and shrouds.



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