



DATA SHEET  
green series

The HOPPECKE grid | Xtreme VR is the next generation of real pure lead (99,98% purity degree) AGM batteries. HOPPECKE has deliberately opted for better corrosion resistance and thus for a very long service life even in high-current applications and high ambient temperatures, such as in telecom applications.

**Proven ESS technology = reduced life cycle costs (TCO)**

The result of Enhanced Stability Standard (ESS) technology is an improved resilience against thermal runaway, better charge acceptance and more even voltage behaviour of the battery. This leads to a longer service life and reduced service costs: in summary optimised life cycle costs.



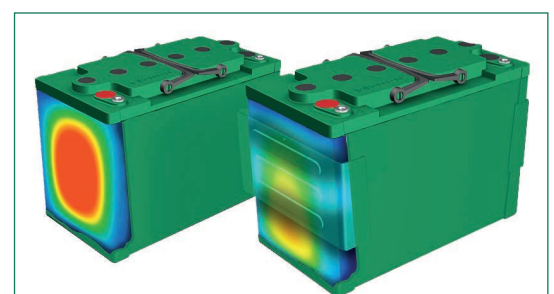
**Unique dual-pole design = less service efforts**

Dedicated pole contact points with touch protection allows for a precise impedance measurement making it quick and easy during installation and regular maintenance work.



**Patented, innovative safeguard-tec = lower operational costs**

The innovative safeguard-tec for the top terminal types (optional) ensures dimensional stability throughout battery lifetime and at elevated ambient temperature. This allows installation in cabinets or on racks with limited demand for a continuous cost-intensive air-conditioning.





### Construction

- High Performance Pure Lead grid electrodes for very good corrosion resistance also under **elevated operating temperature**
- Active mass is designed for **high discharge performance** with good cyclability at the same time
- High-quality and low resistance microporous glass fibre separators combined with **ESS technology** ensures optimum charge carrier exchange and improves a **long-term stability**
- Fully isolated** HOPPECKE connector system
- Innovative plastic-overmolded dual-pole design with an **access for impedance measurements**
- 100% tested self-regulating pressure relief valve per cell to prevent interaction between cells of a block with backfire inhibiting for increased **operational safety**
- UL94 V-0** rated flame retardant ABS-PC material (halogen-free) - high heat, shock and vibration resistant
- 15 years** design life



### Installation & Operation

- Suitable for standby parallel operation as well as partial cyclic applications
- Vertical as well as horizontal installation** on racks, in battery cabinets or in the grid | XtremeStack due to the robust folding handles integrated in the lid for easy assembly
- FT: **real front terminals** for an ease of installation and maintenance - no additional connectors needed
- TT: safeguard-tec optional available - **improves the overall performance** significantly
- Recommended charge float voltage: 2,285 Vpc @ 20°C (68°F) / 2,270 Vpc @ 25°C (77°F)
- Wide operating temperature range from **-35°C to +50°C**
- Storage time** extended up to **2 years** for maximum project deployment flexibility
- Reduced maintenance: no refilling of distilled water is required



### Standards

- Designed to be compliant with international standard **IEC 60896-21/22**
- Usage in applications where longest life and highest reliability are required. Therefore, classified as **"Very Long Life"** (>12 years) according to Eurobat Guide 2015
- UL recognized** component
- UL94 V-0 rated flame retardant ABS-PC material (halogen-free)
- Classified as non-spillable battery and approved as non-hazardous cargo for land, sea and air transportation in accordance with the requirements of **ADR / RID, IMDG and IATA**
- Exclusively manufactured in HOPPECKE certified production facilities in accordance with **ISO 9001, ISO 14001, ISO 50001 and ISO 45001**

## Type overview **grid** | Xtreme VR

### Capacity, dimensions and weights



| Type                           | C <sub>10</sub> /1,8 Vpc @20°C (68°F) | C <sub>8</sub> /1,75 Vpc @25°C (77°F) | P <sub>15 min.</sub> /1,6 Vpc @25°C (77°F) | P <sub>5 min.</sub> /1,6 Vpc @25°C (77°F) | Length L* | Width W* | Height H | Weight    | Terminal  | Fig. |
|--------------------------------|---------------------------------------|---------------------------------------|--|---|-----------|----------|----------|-----------|-----------|------|
| <b>grid</b>   Xtreme VR 122700 | 81 Ah                                 | 83 Ah                                 | 346 Wpc                                    | 636 Wpc                                   | 254 mm    | 174 mm   | 233 mm   | ~ 25,2 kg | M8 female | A    |
| <b>grid</b>   Xtreme VR 123600 | 108 Ah                                | 111 Ah                                | 462 Wpc                                    | 848 Wpc                                   | 320 mm    | 174 mm   | 233 mm   | ~ 33,4 kg | M8 female | A    |
| <b>grid</b>   Xtreme VR 124400 | 155 Ah                                | 161 Ah                                | 580 Wpc                                    | 1011 Wpc                                  | 359 mm    | 174 mm   | 283 mm   | ~ 45,7 kg | M8 female | A    |
| <b>grid</b>   Xtreme VR 125100 | 175 Ah                                | 182 Ah                                | 657 Wpc                                    | 1207 Wpc                                  | 498 mm    | 174 mm   | 233 mm   | ~ 50,4 kg | M8 female | A    |

\*) +3 mm length (L1) and +5 mm width (W1) using optional safeguard-tec



| Type                              | C <sub>10</sub> /1,8 Vpc @20°C (68°F) | C <sub>8</sub> /1,75 Vpc @25°C (77°F) | C <sub>5</sub> /1,7 Vpc @25°C (77°F) | C <sub>1</sub> /1,7 Vpc @25°C (77°F) | Length L | Width W | Height H | Weight    | Terminal  | Fig. |
|-----------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|--------------------------------------|----------|---------|----------|-----------|-----------|------|
| <b>grid</b>   Xtreme VR 121000 FT | 100 Ah                                | 105 Ah                                | 96 Ah                                | 81 Ah                                | 563 mm   | 125 mm  | 200 mm   | ~ 33,5 kg | M8 female | B    |
| <b>grid</b>   Xtreme VR 121500 FT | 153 Ah                                | 160 Ah                                | 147 Ah                               | 124 Ah                               | 563 mm   | 110 mm  | 307 mm   | ~ 49,2 kg | M8 female | B    |
| <b>grid</b>   Xtreme VR 121800 FT | 182 Ah                                | 190 Ah                                | 175 Ah                               | 147 Ah                               | 563 mm   | 125 mm  | 307 mm   | ~ 57,2 kg | M8 female | B    |
| <b>grid</b>   Xtreme VR 122000 FT | 195 Ah                                | 204 Ah                                | 188 Ah                               | 157 Ah                               | 563 mm   | 125 mm  | 322 mm   | ~ 60,0 kg | M8 female | B    |

Fig. A

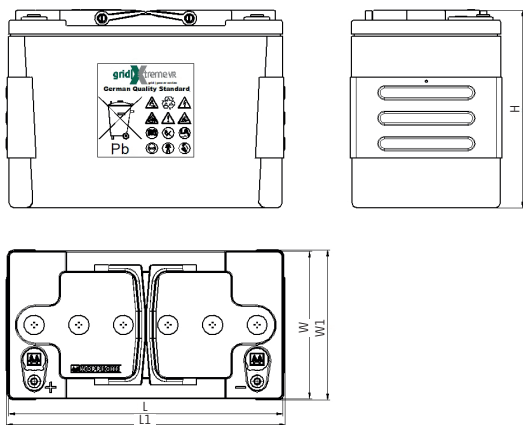
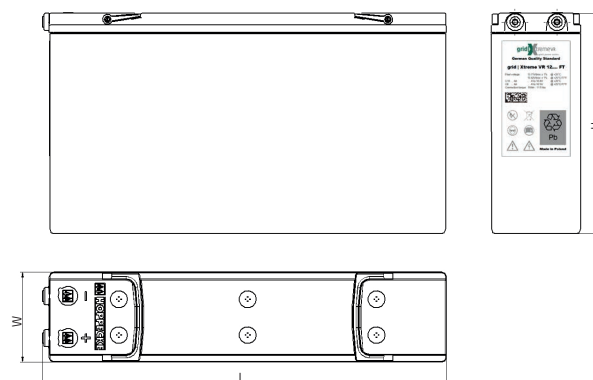


Fig. B



Tightening torque of terminal screw: 15 Nm - 133 lbf in

## Applications **grid | Xtreme VR**

HOPPECKE's **grid | Xtreme VR** has been specially developed for



Data Center



Telecommunication



As a matter of fact, **grid | Xtreme VR** is versatile and may be used in other DC or AC industrial applications.

### All of our cells and batteries should be installed, commissioned and operated in accordance with:

- HOPPECKE Operational Manual / Recommendations / Instructions
- International Standard IEC 62485-2 Safety requirements for secondary batteries and battery installations – Part 2: Stationary batteries
- Regional / National / Local Standards for the Environment

### Optimal environmental compatibility - closed material cycle in certified recycling system

HOPPECKE Baterie Polska Sp. z o.o.  
ul. Logistyczna 10  
63-006 Śródka  
Poland  
Tel.: +48 61 64 65 000  
Fax: +48 61 64 65 001  
E-Mail: sbo@hoppecke.pl

HOPPECKE Batterien GmbH & Co. KG  
Bontkirchener Straße 1  
59929 Brilon  
Germany  
Tel.: +49 (0) 2963 61-374  
Fax: +49 (0) 2963 61-270  
E-Mail: reservpower@hoppecke.com

