





**DATA SHEET** 

grid | Xtreme VR

The HOPPECKE grid | Xtreme VR is the next generation of real pure lead (99.99% 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.

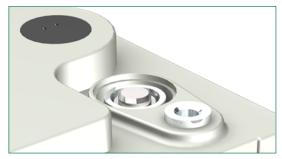
# Proven ESS technology = reduced life cycle costs (TCO)

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.



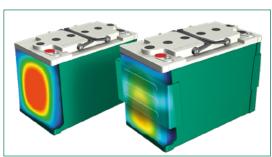
### Unique dual-pole design = less service efforts

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 maximum corrosion resistance also under elevated operating temperature
- Active mass is designed for maximum discharge performance with good cyclability at the same
- 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 material (halogen-free) - high heat, shock and vibration resistant
- 15 years design life and optimised aging behaviour at high temperatures



# 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: 2,3 Vpc @ 20°C (68°F) / 2,288 Vpc @ 25°C (77°F)
- Operating temperature range extremely wide from -40°C to +55°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 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



Туре	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.
grid   Xtreme VR 12-80	83 Ah	85 Ah	349 Wpc	687 Wpc	254 mm	174 mm	233 mm	~ 25,8 kg	M8 female	А
grid   Xtreme VR 12-110	110 Ah	113 Ah	470 Wpc	921 Wpc	320 mm	174 mm	233 mm	~ 32,4 kg	M8 female	А
grid   Xtreme VR 12-150	159 Ah	166 Ah	649 Wpc	1140 Wpc	359 mm	174 mm	283 mm	~ 46,3 kg	M8 female	А
grid   Xtreme VR 12-170	180 Ah	187 Ah	746 Wpc	1341 Wpc	498 mm	174 mm	233 mm	~ 51,4 kg	M8 female	А

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



Туре	C <sub>10</sub> /1,8 Vpc @20°C (68°F)	C <sub>8</sub> /1,75 Vpc @25°C (77°F)	C <sub>3</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.
grid   Xtreme VR 12-100 FT 19"	96 Ah	100 Ah	92 Ah	78 Ah	404 mm	110 mm	264 mm	~ 30,2 kg	M8 female	В
grid   Xtreme VR 12-100 FT 23"	105 Ah	109 Ah	100 Ah	86 Ah	563 mm	125 mm	200 mm	~ 33,9 kg	M8 female	В
grid   Xtreme VR 12-150 FT	165 Ah	172 Ah	155 Ah	131 Ah	563 mm	110 mm	307 mm	~ 50,2 kg	M8 female	В
grid   Xtreme VR 12-180 FT	185 Ah	194 Ah	174 Ah	147 Ah	563 mm	125 mm	307 mm	~ 57,4 kg	M8 female	В
grid   Xtreme VR 12-200 FT	201 Ah	209 Ah	190 Ah	158 Ah	563 mm	125 mm	322 mm	~ 61,2 kg	M8 female	В





Fig. A

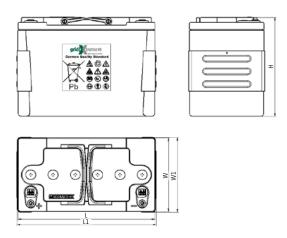
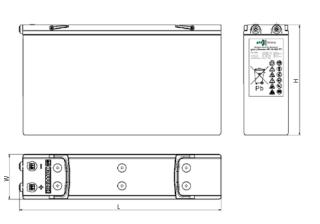


Fig. B



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:reservepower@hoppecke.com

