





DATA SHEET

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.

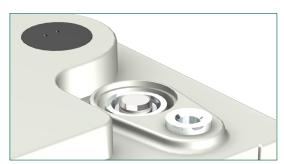
Proven ESS technology = reduced life cycle costs (TCO)

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.



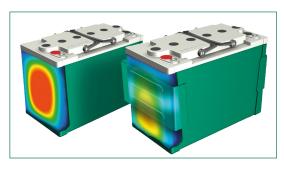
Unique dual-pole design = less service efforts

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 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 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 ₁₀ /1,8 Vpc @20°C (68°F)	C ₈ /1,75 Vpc @25°C (77°F)	P _{15 min.} /1,6 Vpc @25°C (77°F)	P _{5 min.} /1,6 Vpc @25°C (77°F)	Length L*	Width W*	Height H	Weight	Terminal	Fig.
grid Xtreme VR 12-80	82 Ah	85 Ah	364 Wpc	668 Wpc	254 mm	174 mm	233 mm	~ 25,7 kg	M8 female	А
grid Xtreme VR 12-110	110 Ah	114 Ah	485 Wpc	891 Wpc	320 mm	174 mm	232 mm	~ 34,1 kg	M8 female	А
grid Xtreme VR 12-150	158 Ah	164 Ah	610 Wpc	1063 Wpc	359 mm	174 mm	283 mm	~ 46,6 kg	M8 female	А
grid Xtreme VR 12-170	178 Ah	185 Ah	690 Wpc	1269 Wpc	498 mm	174 mm	233 mm	~ 51,4 kg	M8 female	Α

 $^{*})\,$ +3 mm length (L1) and +5 mm width (W1) using optional safeguard-tec



Туре	C ₁₀ /1,8 Vpc @20°C (68°F)	C ₈ /1,75 Vpc @25°C (77°F)	C ₃ /1,7 Vpc @25°C (77°F)	C ₁ /1,7 Vpc @25°C (77°F)	Length L	Width W	Height H	Weight	Terminal	Fig.
grid Xtreme VR 12-100 FT	102 Ah	106 Ah	98 Ah	82 Ah	552 mm	125 mm	220 mm	~ 36,5 kg	M8 female	В
grid Xtreme VR 12-120 FT	124 Ah	130 Ah	119 Ah	100 Ah	552 mm	125 mm	220 mm	~ 38,8 kg	M8 female	В
grid Xtreme VR 12-150 FT	156 Ah	163 Ah	149 Ah	125 Ah	563 mm	110 mm	307 mm	~ 50,2 kg	M8 female	В
grid Xtreme VR 12-165 FT	165 Ah	172 Ah	163 Ah	133 Ah	551 mm	125 mm	305 mm	~ 54,9 kg	M8 female	В
grid Xtreme VR 12-180 FT	185 Ah	194 Ah	177 Ah	149 Ah	551 mm	125 mm	305 mm	~ 58,4 kg	M8 female	В
grid Xtreme VR 12-200 FT	199 Ah	208 Ah	189 Ah	159 Ah	563 mm	125 mm	322 mm	~ 61,2 kg	M8 female	В





Fig. A

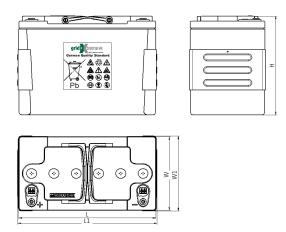
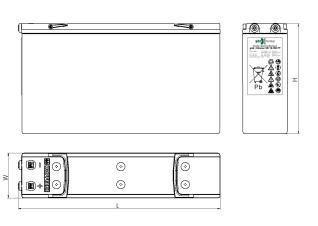


Fig. B



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







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

Tel.: +49 (0) 2963 61-374 Fax: +49 (0) 2963 61-270 E-Mail:reservepower@hoppecke.com

