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 Архангельск (8182)63-90-72
 Астрахань (8512)99-46-04
 Барнаул (3852)73-40-60
 Белгород (4722)40-23-64
 Благовещенск (4162)22-76-07
 Брянск (4832)59-03-52
 Владивосток (423)249-28-31
 Владикавказ (8672)28-90-48
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 Вологда (8172)26-41-59
 Воронеж (473)204-51-73
 Екатеринбург (343)384-55-89
 Иваново (4932)77-34-06
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 Иркутск (395)279-98-46
 Казань (843)206-01-48

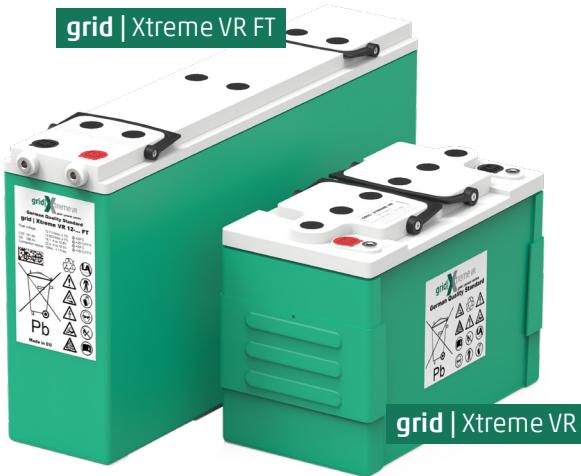
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 Ульяновск (8422)24-23-59
 Улан-Удэ (3012)59-97-51
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 Череповец (8202)49-02-64
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 Ярославль (4852)69-52-93

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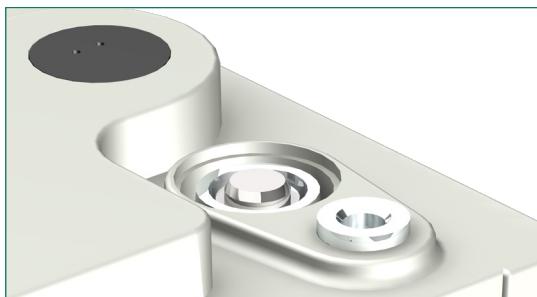
The HOPPECKE grid | Xtreme VR is the next generation of real pure lead (99.99% purity degree) AGM batteries. HOPPECKE has deliberately opted for better corrosion resistance and thus for a very long service life even in high-current applications and high ambient temperatures, such as in telecom applications.

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.

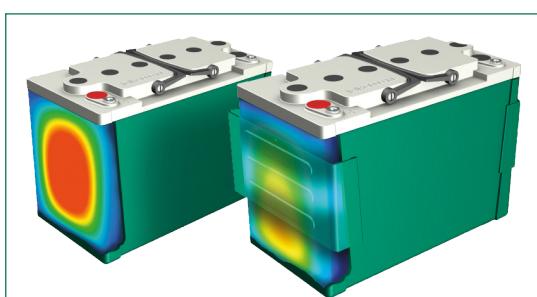
Unique dual-pole design = less service efforts

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



Type	$C_{10}/1,8 \text{ Vpc}$ @20°C (68°F)	$C_8/1,75 \text{ Vpc}$ @25°C (77°F)	$P_{15\text{ min.}}/1,6 \text{ Vpc}$ @25°C (77°F)	$P_{5\text{ min.}}/1,6 \text{ Vpc}$ @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	~ 25,8 kg	M8 female	A
grid Xtreme VR 12-110	110 Ah	113 Ah	470 Wpc	921 Wpc	320 mm	174 mm	233 mm	~ 32,4 kg	M8 female	A
grid Xtreme VR 12-150	158 Ah	164 Ah	610 Wpc	1063 Wpc	359 mm	174 mm	283 mm	~ 46,3 kg	M8 female	A
grid Xtreme VR 12-170	180 Ah	187 Ah	746 Wpc	1341 Wpc	498 mm	174 mm	233 mm	~ 51,4 kg	M8 female	A

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



Type	$C_{10}/1,8 \text{ Vpc}$ @20°C (68°F)	$C_8/1,75 \text{ Vpc}$ @25°C (77°F)	$C_s/1,7 \text{ Vpc}$ @25°C (77°F)	$C_i/1,7 \text{ Vpc}$ @25°C (77°F)	Length L	Width W	Height H	Weight	Terminal	Fig.
grid Xtreme VR 12-100 FT 19"	95 Ah	100 Ah	89 Ah	75 Ah	404 mm	110 mm	264 mm	~ 30,2 kg	M8 female	B
grid Xtreme VR 12-100 FT 23"	102 Ah	106 Ah	96 Ah	81 Ah	563 mm	125 mm	200 mm	~ 33,9 kg	M8 female	B
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	B
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	B
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	B

Fig. A

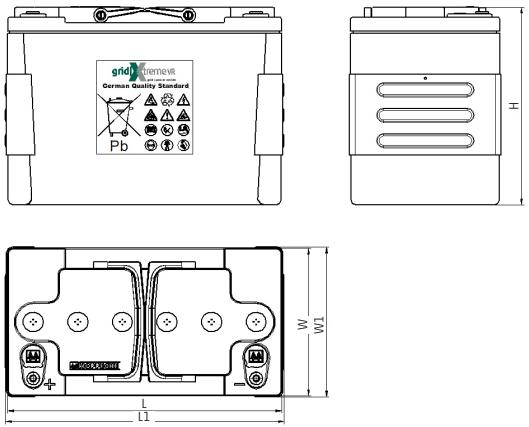
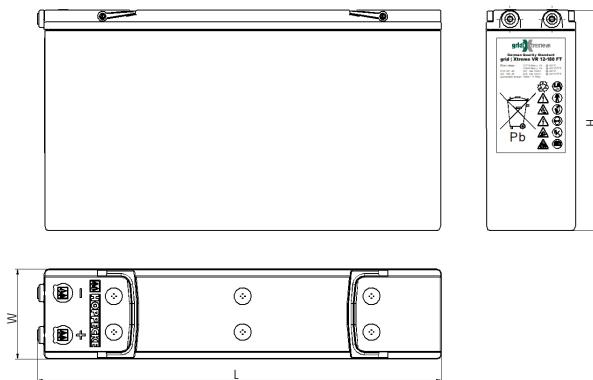


Fig. B



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



Cost-optimized pure lead technology (green series)

The HOPPECKE grid | Xtreme VR green series was developed with a high cost-benefit factor in mind to make the advantages of pure lead technology available to cost-conscious customers. The superior technical characteristics in both top and front terminal versions make them the preferred solution for UPS batteries in data center.

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.



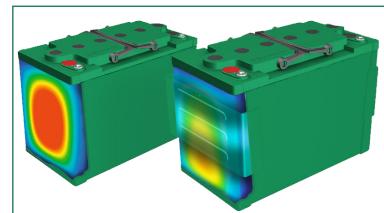
grid | XtremeStack – optimal use of space with a minimal footprint

The innovative stacking solution from HOPPECKE. Tailored for grid | Xtreme VR batteries in the top terminal variant to achieve maximum efficient use of space and power density (kW/m^2) - with comparatively less installation effort and lower costs. grid | XtremeStack is both horizontally and vertically expandable and adapts flexibly to your needs. Suitable for seismic loads up to UBC Zone 1.



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.



Proven ESS technology - reduced life cycle costs (TCO)

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



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
- 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 and optimized aging behavior 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 @ 68°F (20°C) / 2.288 Vpc @ 77°F (25°C)
- Operating temperature range extremely wide from **-31°F to +122°F (-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 (15 years design life) and highest reliability are required. Therefore, classified as "Very Long Life" according to Eurobat Guide 20 15
- **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

MODEL	VOLTAGE [V]	CONSTANT POWER RATINGS IN WATTS PER CELL @ 77°F (25°C)			DIMENSIONS [inches]			WEIGHT	
		1.67 VPC 5 MIN	1.67 VPC 10 MIN	1.67 VPC 15 MIN	LENGTH	WIDTH	HEIGHT	LBS	KG
grid Xtreme VR 122700	12	636.2	461.7	360.1	10.00	6.85	9.17	55.6	25.2
grid Xtreme VR 123600	12	870.8	610.5	464.6	12.60	6.85	9.17	69.9	31.7
grid Xtreme VR 124400	12	1008.8	756.6	601.3	14.13	6.85	11.14	100.1	45.4
grid Xtreme VR 125100	12	1252.4	930.1	735.5	19.61	6.85	9.17	111.1	50.4
grid Xtreme VR 121000 FT 19"	12	543.9	447.9	373.9	15.91	4.33	10.39	65.3	29.6
grid Xtreme VR 121000 FT 23"	12	584.9	482.0	402.6	22.17	4.92	7.87	73.0	33.1
grid Xtreme VR 121500 FT	12	802.0	671.3	572.9	22.17	4.33	12.09	108.5	49.2
grid Xtreme VR 121800 FT	12	1035.2	856.7	717.7	22.17	4.92	12.09	123.9	56.2
grid Xtreme VR 122000 FT	12	1019.8	854.8	730.1	22.17	4.92	12.68	132.3	60.0

MODEL	TERMINAL	MAXIMUM DISCHARGE CURRENT [A]	SHORT CIRCUIT CURRENT (acc. IEC 60896-21) [A]	TERMINAL TYPE	TERMINAL TORQUE	FIG.
grid Xtreme VR 122700	TOP	1100	1410	Insert (M8)	133 in.-lbs (15 Nm)	A
grid Xtreme VR 123600	TOP	1100	2715	Insert (M8)	133 in.-lbs (15 Nm)	A
grid Xtreme VR 124400	TOP	1100	2711	Insert (M8)	133 in.-lbs (15 Nm)	A
grid Xtreme VR 125100	TOP	1100	3818	Insert (M8)	133 in.-lbs (15 Nm)	A
grid Xtreme VR 121000 FT 19"	FRONT	1000	1515	Insert (M8)	133 in.-lbs (15 Nm)	B
grid Xtreme VR 121000 FT 23"	FRONT	1000	1624	Insert (M8)	133 in.-lbs (15 Nm)	B
grid Xtreme VR 121500 FT	FRONT	1000	2325	Insert (M8)	133 in.-lbs (15 Nm)	B
grid Xtreme VR 121800 FT	FRONT	1000	2953	Insert (M8)	133 in.-lbs (15 Nm)	B
grid Xtreme VR 122000 FT	FRONT	1000	3016	Insert (M8)	133 in.-lbs (15 Nm)	B

^a) Top terminal batteries: +0.12 inch in length and +0.2 inch in width using optional safeguard-tec

grid | Xtreme VR 122700

END POINT VPC	CONSTANT POWER DISCHARGE RATINGS - WATTS PER CELL @ *77°F (+25°C)										
	OPERATING TIME TO END POINT VOLTAGE (IN MINUTES)										
	1	2	3	4	5	10	15	20	30	45	60
1.75	541.5	541.5	541.5	541.5	541.5	437.1	348.3	291.0	220.0	161.8	128.2
1.70	659.4	659.4	659.4	659.4	617.8	455.8	358.0	295.3	221.1	162.0	128.3
1.67	681.3	681.3	681.3	681.3	636.2	461.7	360.1	296.1	221.1	162.0	128.3
1.65	732.6	732.6	732.6	692.9	646.3	464.5	360.7	296.1	221.1	162.0	128.3
1.60	827.4	827.4	769.9	714.2	662.7	467.4	360.7	296.1	221.1	162.0	128.3

grid | Xtreme VR 123600

END POINT VPC	CONSTANT POWER DISCHARGE RATINGS - WATTS PER CELL @ *77°F (+25°C)										
	OPERATING TIME TO END POINT VOLTAGE (IN MINUTES)										
	1	2	3	4	5	10	15	20	30	45	60
1.75	927.5	927.5	927.5	855.5	794.0	589.0	460.6	381.1	284.9	207.9	164.1
1.70	1104.0	1104.0	1008.9	922.9	847.0	606.1	464.6	382.5	285.1	207.9	164.2
1.67	1148.2	1148.2	1047.3	953.8	870.8	610.5	464.6	382.5	285.1	207.9	164.2
1.65	1174.2	1174.2	1061.6	966.1	884.8	611.8	464.6	382.5	285.1	207.9	164.2
1.60	1243.7	1243.7	1116.0	1004.9	910.3	611.8	464.6	382.5	285.1	207.9	164.2

grid | Xtreme VR 124400

END POINT VPC	CONSTANT POWER DISCHARGE RATINGS - WATTS PER CELL @ *77°F (+25°C)										
	OPERATING TIME TO END POINT VOLTAGE (IN MINUTES)										
	1	2	3	4	5	10	15	20	30	45	60
1.75	966.3	966.3	966.3	966.3	907.0	702.1	578.7	491.0	380.3	286.7	232.0
1.70	1115.4	1115.4	1115.4	1042.9	971.4	740.1	597.0	502.1	381.6	287.3	232.3
1.67	1159.9	1159.9	1159.9	1082.1	1008.8	756.6	601.3	503.8	381.6	287.3	232.3
1.65	1262.9	1262.9	1180.5	1098.7	1023.1	761.5	603.4	503.9	381.6	287.3	232.3
1.60	1329.0	1329.0	1224.9	1134.6	1053.6	769.9	604.4	503.9	381.6	287.3	232.3

grid | Xtreme VR 125100

END POINT VPC	CONSTANT POWER DISCHARGE RATINGS - WATTS PER CELL @ *77°F (+25°C)										
	OPERATING TIME TO END POINT VOLTAGE (IN MINUTES)										
	1	2	3	4	5	10	15	20	30	45	60
1.75	1290.5	1290.5	1290.5	1210.5	1139.5	878.9	713.3	594.4	450.8	333.8	267.1
1.70	1497.4	1497.4	1395.3	1303.5	1221.2	918.6	730.9	604.4	453.5	334.1	267.1
1.67	1561.3	1561.3	1445.0	1342.7	1252.4	930.1	735.5	605.3	454.6	334.1	267.1
1.65	1599.2	1599.2	1478.6	1371.5	1276.6	938.2	736.3	605.5	454.6	334.1	267.1
1.60	1680.9	1680.9	1550.1	1431.7	1326.1	952.2	737.8	605.5	454.6	334.1	267.1

grid | Xtreme VR 121000 FT 19"

END POINT VPC	CONSTANT POWER DISCHARGE RATINGS - WATTS PER CELL @ *77°F (+25°C)										
	OPERATING TIME TO END POINT VOLTAGE (IN MINUTES)										
	1	2	3	4	5	10	15	20	30	45	60
1.75	480.9	480.9	480.9	480.9	480.9	403.9	343.2	299.2	238.1	179.8	144.3
1.70	564.6	564.6	564.6	542.8	522.1	433.7	365.3	313.2	244.9	182.6	145.4
1.67	590.1	590.1	590.1	566.5	543.9	447.9	373.9	318.9	247.0	182.9	145.4
1.65	607.2	607.2	607.2	581.2	556.8	455.7	378.5	322.0	248.1	182.9	145.4
1.60	665.9	665.9	639.1	612.3	586.0	472.1	386.0	325.1	248.1	182.9	145.4

grid | Xtreme VR 121000 FT 23"

END POINT VPC	CONSTANT POWER DISCHARGE RATINGS - WATTS PER CELL @ *77°F (+25°C)										
	OPERATING TIME TO END POINT VOLTAGE (IN MINUTES)										
	1	2	3	4	5	10	15	20	30	45	60
1.75	517.5	517.5	517.5	517.5	517.5	434.9	369.6	322.3	256.6	193.9	155.6
1.70	607.0	607.0	607.0	583.8	561.6	466.8	393.4	337.4	263.9	196.9	156.8
1.67	634.3	634.3	634.3	609.0	584.9	482.0	402.6	343.5	266.2	197.2	156.8
1.65	652.6	652.6	652.6	624.8	598.6	490.4	407.6	346.8	267.4	197.2	156.8
1.60	715.2	715.2	686.5	657.9	629.8	507.9	415.6	350.1	267.4	197.2	156.8

grid | Xtreme VR 121500 FT

END POINT VPC	CONSTANT POWER DISCHARGE RATINGS - WATTS PER CELL @ *77°F (+25°C)										
	OPERATING TIME TO END POINT VOLTAGE (IN MINUTES)										
	1	2	3	4	5	10	15	20	30	45	60
1.75	672.5	672.5	672.5	672.5	672.5	607.1	530.8	466.4	373.6	287.6	234.6
1.70	790.8	790.8	790.8	790.8	766.1	653.3	560.7	488.4	385.2	293.2	237.6
1.67	834.5	834.5	834.5	834.5	802.0	671.3	572.9	496.3	388.1	294.2	238.0
1.65	885.1	885.1	885.1	847.5	812.8	673.3	572.9	496.3	388.1	294.2	238.0
1.60	980.9	980.9	945.3	908.8	872.3	709.1	585.7	500.3	388.6	294.2	238.0

grid | Xtreme VR 121800 FT

END POINT VPC	CONSTANT POWER DISCHARGE RATINGS - WATTS PER CELL @ *77°F (+25°C)										
	OPERATING TIME TO END POINT VOLTAGE (IN MINUTES)										
	1	2	3	4	5	10	15	20	30	45	60
1.75	919.2	919.2	919.2	919.2	919.2	774.8	660.1	576.5	460.0	348.2	279.8
1.70	1073.8	1073.8	1073.8	1033.7	995.3	830.4	701.7	602.9	472.8	353.5	281.9
1.67	1120.2	1120.2	1120.2	1076.8	1035.2	856.7	717.7	613.7	476.8	354.0	281.9
1.65	1151.3	1151.3	1151.3	1103.6	1058.6	871.1	726.3	619.4	478.9	354.0	281.9
1.60	1256.8	1256.8	1208.2	1159.4	1111.4	901.1	740.1	625.1	478.9	354.0	281.9

grid | Xtreme VR 122000 FT

END POINT VPC	CONSTANT POWER DISCHARGE RATINGS - WATTS PER CELL @ *77°F (+25°C)										
	OPERATING TIME TO END POINT VOLTAGE (IN MINUTES)										
	1	2	3	4	5	10	15	20	30	45	60
1.75	844.9	844.9	844.9	844.9	844.9	773.7	676.9	595.1	477.0	367.5	299.9
1.70	1005.9	1005.9	1005.9	1005.9	974.7	832.2	714.8	623.0	491.7	374.5	303.7
1.67	1060.8	1060.8	1060.8	1060.8	1019.8	854.8	730.1	632.9	495.4	375.8	304.1
1.65	1141.7	1141.7	1141.7	1093.6	1049.1	869.9	737.2	636.6	496.2	375.9	304.1
1.60	1244.3	1244.3	1199.7	1153.8	1108.0	902.3	746.2	638.0	496.2	375.9	304.1

Fig. A

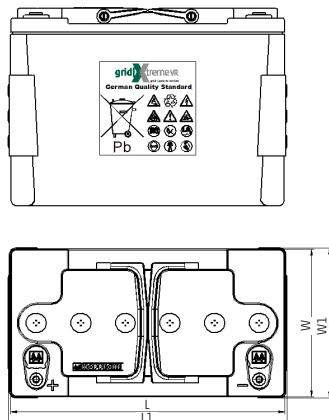
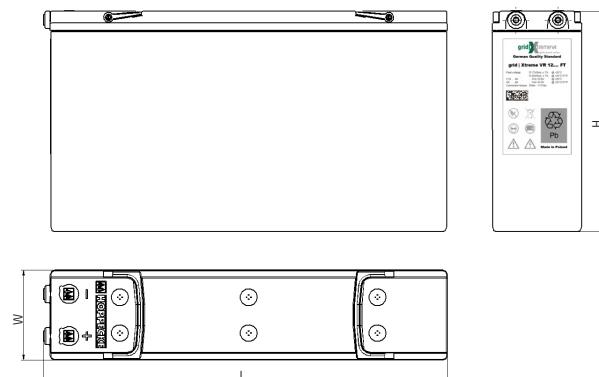


Fig. B



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

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

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