



**RID BATTERY • GERMANY**

**RID BATTERY – REVIVAL TECHNOLOGY**



**BATTERY SYSTEMS WITH INDIVIDUAL SOLUTION**

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## 213 - 3488 Ah RID SERIES OPzS, OFF-GRID / ON-GRID SOLUTIONS



### RID OPzS SERIES - 20 YEARS

Modell	U <sub>n</sub>	C <sub>10</sub> /1.80 V @20 °C	Dimensions			Weight
			Length (L)	Width (W)	Height (H)	
RID 4 OPzS 200	2 V	213 Ah	105 mm	208 mm	420 mm	17,3 kg
RID 5 OPzS 250	2 V	266 Ah	126 mm	208 mm	420 mm	21,0 kg
RID 6 OPzS 300	2 V	320 Ah	147 mm	208 mm	420 mm	24,9 kg
RID 5 OPzS 350	2 V	390 Ah	126 mm	208 mm	535 mm	29,3 kg
RID 6 OPzS 420	2 V	495 Ah	147 mm	208 mm	535 mm	34,4 kg
RID 7 OPzS 490	2 V	546 Ah	168 mm	208 mm	535 mm	39,5 kg
RID 6 OPzS 600	2 V	686 Ah	147 mm	208 mm	710 mm	46,1 kg
RID 7 OPzS 700	2 V	801 Ah	215 mm	193 mm	710 mm	59,1 kg
RID 8 OPzS 800	2 V	915 Ah	215 mm	193 mm	710 mm	63,1 kg
RID 9 OPzS 900	2 V	1026 Ah	215 mm	235 mm	710 mm	72,4 kg
RID 10 OPzS 1000	2 V	1140 Ah	215 mm	235 mm	710 mm	76,4 kg
RID 11 OPzS 1100	2 V	1256 Ah	215 mm	277 mm	710 mm	86,6 kg
RID 12 OPzS 1200	2 V	1370 Ah	215 mm	277 mm	710 mm	90,6 kg
RID 12 OPzS 1500	2 V	1610 Ah	215 mm	277 mm	855 mm	110,4 kg
RID 14 OPzS 1750	2 V	1881 Ah	215 mm	400 mm	815 mm	142,3 kg
RID 15 OPzS 1875	2 V	2016 Ah	215 mm	400 mm	815 mm	146,6 kg
RID 16 OPzS 2000	2 V	2150 Ah	215 mm	400 mm	815 mm	150,9 kg
RID 18 OPzS 2250	2 V	2412 Ah	215 mm	490 mm	815 mm	179,1 kg
RID 19 OPzS 2375	2 V	2546 Ah	215 mm	490 mm	815 mm	182,9 kg
RID 20 OPzS 2500	2 V	2680 Ah	215 mm	490 mm	815 mm	187,3 kg
RID 22 OPzS 2750	2 V	2952 Ah	215 mm	580 mm	815 mm	212,5 kg
RID 23 OPzS 2875	2 V	3086 Ah	215 mm	580 mm	815 mm	216,8 kg
RID 24 OPzS 3000	2 V	3220 Ah	215 mm	580 mm	815 mm	221,2 kg
RID 26 OPzS 3250	2 V	3488 Ah	215 mm	580 mm	815 mm	229,6 kg

# 224 - 3286 Ah RID SERIES OPzV, TELECOMMUNICATIONS

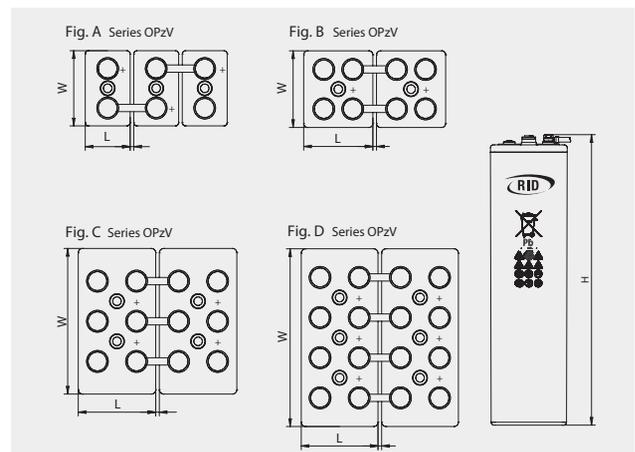


## RID SERIES OPzV - VRLA 20 YEARS

Modell	U <sub>n</sub>	C <sub>10</sub> /1.80 V @20 °C	Length (L)	Width (W)	Height (H)	Weight	Fig.
RID 4 OPzV 200	12 V	224 Ah	103 mm	206 mm	354/380 mm	19,5 kg	A
RID 5 OPzV 250	12 V	280 Ah	124 mm	206 mm	354/380 mm	23,0 kg	A
RID 6 OPzV 300	12 V	337 Ah	145 mm	206 mm	354/380 mm	28,2 kg	A
RID 5 OPzV 350	12 V	416 Ah	124 mm	206 mm	471/496 mm	31,0 kg	A
RID 6 OPzV 420	12 V	499 Ah	145 mm	206 mm	471/496 mm	36,5 kg	A
RID 7 OPzV 490	12 V	582 Ah	166 mm	206 mm	471/496 mm	41,5 kg	A
RID 6 OPzV 600	12 V	748 Ah	145 mm	206 mm	643/668 mm	49,0 kg	A
RID 8 OPzV 800	12 V	998 Ah	210 mm	191 mm	643/668 mm	65,0 kg	B
RID 10 OPzV 1000	12 V	1248 Ah	210 mm	233 mm	643/668 mm	80,0 kg	B
RID 12 OPzV 1200	12 V	1497 Ah	210 mm	275 mm	643/668 mm	93,0 kg	B
RID 15 OPzV 1500	12 V	1643 Ah	210 mm	275 mm	796/821 mm	115,0 kg	B
RID 16 OPzV 2000	12 V	2190 Ah	214 mm	399 mm	771/796 mm	154,0 kg	C
RID 20 OPzV 2500	12 V	2738 Ah	214 mm	482 mm	769/794 mm	202,0 kg	D
RID 24 OPzV 3000	12 V	3286 Ah	214 mm	576 mm	771/796 mm	238,0 kg	D

The valve-regulated lead-acid batteries of the **RID OPzV Series** are specially designed for high energy throughputs. This is achieved by the proven design of tubular plates and an electrolyte fixed in gel. The excellent cycling properties during operation with partial discharge (Partial State of Charge - PSoC) are characteristic features of this series and, in combination with the extensive capacity range, make it the first choice in e.g. village power supplies.

The proven format according to DIN and the possibility of horizontal operation make the product versatile and furthermore offer the necessary flexibility for installation in limited spaces. The high quality standard of the product is also visible to the user at all times due to the elaborate use of plastic-moulded and corrosion-free battery terminals.



## 25 - 150 Ah RID XTREME RESERVED POWER FOR UPS



### RID XTREME HPPL-TECHNOLOGY PURE LEAD, 15 YEARS

Modell	U <sub>n</sub>	C <sub>10</sub> /1,8 V <sub>pc</sub> @20°C	C <sub>8</sub> /1,75 V <sub>pc</sub> @25°C	Length (L)	Width (W)	Height (H)	Weight
RID Xtreme VR 12-85	12 V	85 Ah	87 Ah	254 mm	174 mm	233 mm	25,5 kg
RID Xtreme VR 12-110	12 V	110 Ah	113 Ah	320 mm	174 mm	233 mm	32,4 kg
RID Xtreme VR 12-130	12 V	134 Ah	138 Ah	320 mm	174 mm	283 mm	42,7 kg
RID Xtreme VR 12-150	12 V	159 Ah	166 Ah	359 mm	174 mm	283 mm	46,3 kg
RID Xtreme VR 12-170	12 V	180 Ah	187 Ah	498 mm	174 mm	233 mm	51,4 kg

### RID XTREME FRONT TERMINAL HPPL-TECHNOLOGY PURE LEAD, 15 YEARS

Modell	U <sub>n</sub>	C <sub>10</sub> /1,8 V <sub>pc</sub> @20°C	C <sub>8</sub> /1,75 V <sub>pc</sub> @25°C	Length (L)	Width (W)	Height (H)	Weight
RID Xtreme VR 12-100 FT 19"	12 V	100 Ah	104 Ah	404 mm	110 mm	264 mm	30,2 kg
RID Xtreme VR 12-100 FT 23"	12 V	105 Ah	109 Ah	563 mm	125 mm	200 mm	33,9 kg
RID Xtreme VR 12-150 FT	12 V	165 Ah	172 Ah	563 mm	110 mm	307 mm	50,2 kg
RID Xtreme VR 12-180 FT	12 V	185 Ah	194 Ah	563 mm	125 mm	307 mm	57,4 kg
RID Xtreme VR 12-200 FT	12 V	201 Ah	209 Ah	563 mm	125 mm	322 mm	61,2 kg

### THE RID XTREME IS THE NEXT GENERATION OF REAL PURE LEAD (99.99% PURITY DEGREE) AGM BATTERIES

- | High Performance **Pure Lead** grid electrodes for maximum corrosion resistance also under elevated operating temperature
- | **Vertical** as well as **horizontal** installation on racks, in battery cabinets or in the Stack due to the robust folding handles integrated in the lid for easy assembly
- | Usage in applications where longest life and highest reliability are required. Therefore, classified as "**Very Long Life**" (>12 years) according to Eurobat Guide 2015
- | Active mass is designed for maximum discharge performance with good cyclability at the same time
- | Operating temperature range extremely wide from **-40°C to +55°C**
- | Exclusively manufactured for RID-Batterie certified production facilities in accordance with ISO 9001, ISO 14001, ISO 50001 and ISO 45001
- | **15 years** design life and optimised aging behaviour at high temperatures
- | Storage time extended up to 2 years for maximum project deployment flexibility
- | Designed to be compliant with international standard IEC 60896-21/22

## RID ST SERIES COMMERCIAL VEHICLES BATTERY



## RID ST2 SERIES - COMMERCIAL VEHICLES BATTERY

Modell	U <sub>n</sub>	Capacity	Length (L)	Width (W)	Height (H)	CCE (EN) / Layout	Weight / Pieces per pallet
RID ST2 12-25	12 V	25 Ah	196 mm	175 mm	185 mm	250 A / 0-1	7,2 kg / 128
RID ST2 12-35	12 V	35 Ah	196 mm	128 mm	223 mm	270 A / 0-1	9,4 kg / 128
RID ST2 12-40	12 V	40 Ah	207 mm	175 mm	175 mm	400 A / 0-1	10,7 kg / 120
RID ST2 12-45	12 V	45 Ah	207 mm	175 mm	175 mm	430 A / 0	11,2 kg / 120
RID ST2 12-50	12 V	50 Ah	207 mm	175 mm	190 mm	470 A / 0	12,2 kg / 100
RID ST2 12-65	12 V	65 Ah	230 mm	173 mm	220 mm	650 A / 0-1	15,5 kg / 90
RID ST2 12-70	12 V	70 Ah	278 mm	175 mm	190 mm	690 A / 0	16,1 kg / 80
RID ST2 12-90	12 V	90 Ah	330 mm	173 mm	239 mm	850 A / 0	23,4 kg / 60
RID ST2 12-92	12 V	92 Ah	315 mm	175 mm	190 mm	830 A / 0	20,0 kg / 60
RID ST2 12-95	12 V	95 Ah	306 mm	173 mm	221 mm	880 A / 0-1	20,9 kg / 70
RID ST2 12-100	12 V	100 Ah	353 mm	175 mm	190 mm	900 A / 0	22,5 kg / 60
RID ST2 12-110	12 V	110 Ah	345 mm	172 mm	238 mm	950 A / 0	26,5 kg / 48
RID ST2 12-125	12 V	125 Ah	345 mm	172 mm	289 mm	950 A / 0	31,8 kg / 36
RID ST2 12-135	12 V	135 Ah	513 mm	189 mm	220 mm	970 A / 3	35,6 kg / 35
RID ST2 12-150	12 V	150 Ah	509 mm	175 mm	208 mm	1050 A / 3	36,9 kg / 40
RID ST2 12-170	12 V	170 Ah	512 mm	222 mm	221 mm	1100 A / 3-4	42,7 kg / 28
RID ST2 12-180	12 V	180 Ah	512 mm	222 mm	221 mm	1200 A / 3	43,3 kg / 28
RID ST2 12-200	12 V	200 Ah	518 mm	273 mm	241 mm	1250 A / 3	52,7 kg / 24
RID ST2 12-225	12 V	225 Ah	518 mm	273 mm	241 mm	1300 A / 3	56,1 kg / 24

# RID ST SERIES COMMERCIAL VEHICLES BATTERY



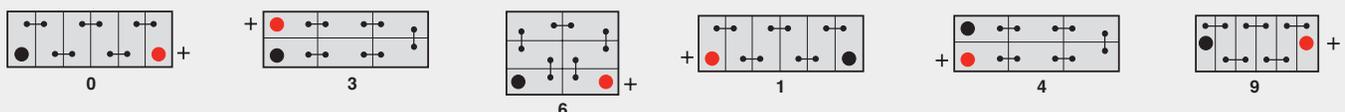
## RID ST3 SERIES - COMMERCIAL VEHICLES BATTERY

Modell	U <sub>n</sub>	Capacity	Length (L)	Width (W)	Height (H)	CCE (EN) / Layout	Weight / Pieces per pallet
RID ST3 12-55	12 V	55 Ah	207 mm	175 mm	190 mm	560 A / 0	12,8 kg / 100
RID ST3 12-62	12 V	62 Ah	242 mm	175 mm	175 mm	630 A / 0	13,9 kg / 108
RID ST3 12-75	12 V	75 Ah	278 mm	175 mm	175 mm	750 A / 0	16,5 kg / 96
RID ST3 12-78	12 V	78 Ah	278 mm	175 mm	190 mm	780 A / 0	17,5 kg / 80
RID ST3 12-85	12 V	85 Ah	315 mm	175 mm	175 mm	850 A / 0	18,9 kg / 72
RID ST3 12-110	12 V	110 Ah	394 mm	175 mm	190 mm	1050 A / 0	24,7 kg / 60
RID ST3 12-140	12 V	140 Ah	507 mm	188 mm	222 mm	1000 A / 3	35,6 kg / 35
RID ST3 12-150	12 V	150 Ah	513 mm	222 mm	216 mm	1050 A / 3	39,6 kg / 35
RID ST3 12-200	12 V	200 Ah	517 mm	275 mm	236 mm	1250 A / 3	52,7 kg / 24
RID ST3 12-225	12 V	225 Ah	517 mm	275 mm	236 mm	1300 A / 3	56,1 kg / 24

RID Battery GmbH - **ST Series** batteries are designed to provide dependable starting power and long-term durability for a wide range of commercial vehicles. Their reinforced internal construction, high vibration resistance, and optimized plate geometry ensure stable performance even under intensive operating conditions. With consistent cold-cranking capability, reliable recharge efficiency, and robust housing materials, the ST Series delivers the reliability required for transport fleets, agricultural machinery, and industrial applications where operational uptime is essential.

These batteries are engineered to maintain stable performance even under frequent start cycles and fluctuating operating conditions. Their robust design supports high reliability in professional environments where consistent power delivery is critical.

### CELL ASSEMBLY LAYOUT - 12 VOLT



## RID ST SERIES COMMERCIAL VEHICLES BATTERY

### RID ST5 & ST7 SERIES - COMMERCIAL VEHICLES BATTERY

Modell	U <sub>n</sub>	Capacity	Length (L)	Width (W)	Height (H)	CCE (EN) / Layout	Weight / Pieces per pallet
RID ST5 12-60	12 V	60 Ah	242 mm	175 mm	190 mm	650 A / 0-1	14,4 kg / 90
RID ST5 12-75	12 V	75 Ah	278 mm	175 mm	190 mm	780 A / 0	17,2 kg / 80
RID ST7 12-70	12 V	70 Ah	278 mm	175 mm	190 mm	700 A / 0	17,6 kg / 80
RID ST7 12-75	12 V	75 Ah	278 mm	175 mm	190 mm	750 A / 0	17,6 kg / 80
RID ST7 12-92	12 V	92 Ah	315 mm	175 mm	190 mm	830 A / 0	21,0 kg / 60
RID ST7 12-105	12 V	105 Ah	353 mm	175 mm	190 mm	950 A / 0	23,4 kg / 60

### RID ST EFB SERIES - COMMERCIAL VEHICLES BATTERY STOP & GO

Modell	U <sub>n</sub>	Capacity	Length (L)	Width (W)	Height (H)	CCE (EN) / Layout	Weight / Pieces per pallet
RID ST EFB 12-60	12 V	60 Ah	242 mm	175 mm	190 mm	720 A / 0	16,6 kg / 90
RID ST EFB 12-65	12 V	65 Ah	230 mm	173 mm	220 mm	730 A / 0-1	17,1 kg / 90
RID ST EFB 12-70	12 V	70 Ah	278 mm	175 mm	190 mm	820 A / 0	19,2 kg / 80
RID ST EFB 12-75	12 V	75 Ah	315 mm	175 mm	175 mm	830 A / 0	18,2 kg / 72
RID ST EFB 12-80	12 V	80 Ah	315 mm	175 mm	190 mm	880 A / 0	21,9 kg / 60
RID ST EFB 12-90	12 V	90 Ah	353 mm	175 mm	190 mm	920 A / 0	24,6 kg / 60
RID ST EFB 12-105	12 V	105 Ah	306 mm	173 mm	221 mm	1100 A / 0-1	23,3 kg / 70
RID ST EFB 12-190	12 V	190 Ah	513 mm	222 mm	221 mm	1200 A / 3	45,3 kg / 28
RID ST EFB 12-240	12 V	240 Ah	517 mm	275 mm	241 mm	1300 A / 3	58,6 kg / 24

### RID AGM SERIES - COMMERCIAL VEHICLES BATTERY STOP & GO

Modell	U <sub>n</sub>	Capacity	Length (L)	Width (W)	Height (H)	CCE (EN) / Layout	Weight / Pieces per pallet
RID ST AGM 12-60	12 V	60 Ah	242 mm	175 mm	190 mm	720 A / 0	17,9 kg / 90
RID ST AGM 12-70	12 V	70 Ah	278 mm	175 mm	190 mm	820 A / 0	20,5 kg / 80
RID ST AGM 12-75	12 V	75 Ah	263 mm	173 mm	221 mm	830 A / 0	20,4 kg / 80
RID ST AGM 12-80	12 V	80 Ah	315 mm	175 mm	190 mm	880 A / 0	23,2 kg / 60
RID ST AGM 12-95	12 V	95 Ah	353 mm	175 mm	190 mm	950 A / 0	26,0 kg / 60
RID ST AGM 12-105	12 V	105 Ah	394 mm	175 mm	190 mm	1100 A / 0	29,3 kg / 60

### RID MARINE SERIES - MARINE STARTING BATTERIES

Modell	U <sub>n</sub>	Capacity	Length (L)	Width (W)	Height (H)	CCE (EN) / Layout	Weight / Pieces per pallet
RID MT 12-80	12 V	80 Ah	260 mm	174 mm	225 mm	800 A / 1	18,9 kg / 54
RID MT 12-90	12 V	90 Ah	304 mm	173 mm	225 mm	900 A / 1	21,2 kg / 45
RID MT 12-100	12 V	100 Ah	330 mm	173 mm	240 mm	1000 A / 1	23,5 kg / 36

# RID STARTER BATTERY



## STARTER BATTERIES FOR COMMERCIAL VEHICLES

RID Battery GmbH starter batteries are engineered to deliver reliable cold-cranking power in the most demanding operating environments. Utilizing reinforced plate technology and enhanced vibration resistance, they ensure fast engine starts, stable energy supply, and extended service life for commercial fleets of all types.

Our portfolio includes conventional, EFB, and AGM technologies, allowing operators to select the optimal solution for light, medium, and heavy-duty applications. Whether the requirement is high starting performance, increased charge acceptance for Stop & Go systems, or superior cycling capability, RID Battery GmbH provides robust products that meet modern OEM expectations.

All RID Battery GmbH starter batteries are manufactured under stringent European quality standards. Each production batch undergoes comprehensive testing for capacity, cold-cranking performance, environmental resistance, and electrical reliability, ensuring consistent operation throughout the entire service life. This rigorous quality assurance process guarantees that every battery delivered to the market upholds the company's commitment to durability and safety.

Designed for real-world commercial use, RID Battery GmbH products offer excellent resistance to temperature fluctuations, long periods of inactivity, and heavy electrical loads from onboard equipment. Their optimized internal architecture allows for reduced self-discharge and improved charge efficiency, enabling reliable performance even in vehicles with high auxiliary power consumption. This makes RID batteries a dependable choice for logistics fleets, construction machinery, agricultural equipment, and other professional applications where uptime is critical.

Backed by continuous research, modern manufacturing processes, and a customer-centric approach, RID Battery GmbH remains focused on providing high-performance energy solutions that support efficient, uninterrupted operation in today's commercial transport and industrial sectors.



# RID MOTIVE POWER BATTERIES FOR FORKLIFTS



## Extended service life

Thanks to the low internal resistance, heat generation is reduced, which noticeably extends the battery's service life

## Higher availability

More usable capacity and longer driving times, due to the property of maintaining high voltages while delivering high currents

## Reduction of operating costs

More energy and time efficient due to reduced power consumption and fast charging capability

## Compatibility

Can be charged on any standard PzS charger – no new investment necessary

## RID PzS - 50 AH / PLATE

Modell	U <sub>n</sub>	Capacity	Length (L)	Width (W)	Height (H)	Weight
2 PzS - 100 L	2 V	100 Ah	198 mm	47 mm	282/305 mm	6,8 kg
3 PzS - 150 L	2 V	150 Ah	198 mm	65 mm	282/305 mm	9,6 kg
4 PzS - 200 L	2 V	200 Ah	198 mm	83 mm	282/305 mm	12,4 kg
5 PzS - 250 L	2 V	250 Ah	198 mm	101 mm	282/305 mm	15,3 kg
6 PzS - 300 L	2 V	300 Ah	198 mm	119 mm	282/305 mm	18,2 kg
7 PzS - 350 L	2 V	350 Ah	198 mm	137 mm	282/305 mm	21,1 kg
8 PzS - 400 L	2 V	400 Ah	198 mm	155 mm	282/305 mm	24,0 kg
9 PzS - 450 L	2 V	450 Ah	198 mm	173 mm	282/305 mm	26,9 kg
10 PzS - 500 L	2 V	500 Ah	198 mm	191 mm	282/305 mm	29,8 kg

## RID PzS - 60 AH / PLATE

Modell	U <sub>n</sub>	Capacity	Length (L)	Width (W)	Height (H)	Weight
2 PzS - 120 L	2 V	120 Ah	198 mm	47 mm	340/363 mm	8,5 kg
3 PzS - 180 L	2 V	180 Ah	198 mm	65 mm	340/363 mm	11,9 kg
4 PzS - 240 L	2 V	240 Ah	198 mm	83 mm	340/363 mm	15,4 kg
5 PzS - 300 L	2 V	300 Ah	198 mm	101 mm	340/363 mm	18,9 kg
6 PzS - 360 L	2 V	360 Ah	198 mm	119 mm	340/363 mm	22,4 kg
7 PzS - 420 L	2 V	420 Ah	198 mm	137 mm	340/363 mm	25,9 kg
8 PzS - 480 L	2 V	480 Ah	198 mm	155 mm	340/363 mm	29,4 kg
9 PzS - 540 L	2 V	540 Ah	198 mm	173 mm	340/363 mm	32,9 kg
10 PzS - 600 L	2 V	600 Ah	198 mm	191 mm	340/363 mm	36,4 kg

# RID MOTIVE POWER BATTERIES FOR FORKLIFTS

## RID PzS - 80 AH / PLATE

Modell	U <sub>n</sub>	Capacity	Length (L)	Width (W)	Height (H)	Weight
2 PzS - 160 L	2 V	160 Ah	198 mm	47 mm	402/425 mm	10,2 kg
3 PzS - 240 L	2 V	240 Ah	198 mm	65 mm	402/425 mm	14,5 kg
4 PzS - 320 L	2 V	320 Ah	198 mm	83 mm	402/425 mm	18,7 kg
5 PzS - 400 L	2 V	400 Ah	198 mm	101 mm	402/425 mm	22,9 kg
6 PzS - 480 L	2 V	480 Ah	198 mm	119 mm	402/425 mm	27,1 kg
7 PzS - 560 L	2 V	560 Ah	198 mm	137 mm	402/425 mm	31,3 kg
8 PzS - 640 L	2 V	640 Ah	198 mm	155 mm	402/425 mm	35,5 kg
9 PzS - 720 L	2 V	720 Ah	198 mm	173 mm	402/425 mm	39,7 kg
10 PzS - 800 L	2 V	800 Ah	198 mm	191 mm	402/425 mm	43,9 kg

## RID PzS - 90 AH / PLATE

Modell	U <sub>n</sub>	Capacity	Length (L)	Width (W)	Height (H)	Weight
2 PzS - 180 L	2 V	180 Ah	198 mm	47 mm	472/495 mm	11,6 kg
3 PzS - 270 L	2 V	270 Ah	198 mm	65 mm	472/495 mm	16,6 kg
4 PzS - 360 L	2 V	360 Ah	198 mm	83 mm	472/495 mm	21,4 kg
5 PzS - 450 L	2 V	450 Ah	198 mm	101 mm	472/495 mm	26,2 kg
6 PzS - 540 L	2 V	540 Ah	198 mm	119 mm	472/495 mm	31,0 kg
7 PzS - 630 L	2 V	630 Ah	198 mm	137 mm	472/495 mm	35,8 kg
8 PzS - 720 L	2 V	720 Ah	198 mm	155 mm	472/495 mm	40,6 kg
9 PzS - 810 L	2 V	810 Ah	198 mm	173 mm	472/495 mm	45,4 kg
10 PzS - 900 L	2 V	900 Ah	198 mm	191 mm	472/495 mm	50,2 kg

## RID PzS - 105 AH / PLATE

Modell	U <sub>n</sub>	Capacity	Length (L)	Width (W)	Height (H)	Weight
2 PzS - 210 L	2 V	100 Ah	198 mm	47 mm	515/538 mm	13,3 kg
3 PzS - 315 L	2 V	150 Ah	198 mm	65 mm	515/538 mm	18,3 kg
4 PzS - 420 L	2 V	200 Ah	198 mm	83 mm	515/538 mm	23,7 kg
5 PzS - 525 L	2 V	250 Ah	198 mm	101 mm	515/538 mm	29,1 kg
6 PzS - 630 L	2 V	300 Ah	198 mm	119 mm	515/538 mm	34,5 kg
7 PzS - 735 L	2 V	350 Ah	198 mm	137 mm	515/538 mm	39,9 kg
8 PzS - 840 L	2 V	400 Ah	198 mm	155 mm	515/538 mm	45,3 kg
9 PzS - 945 L	2 V	450 Ah	198 mm	173 mm	515/538 mm	50,7 kg
10 PzS - 1050 L	2 V	500 Ah	198 mm	191 mm	515/538 mm	56,4 kg

# RID MOTIVE POWER BATTERIES FOR FORKLIFTS



## RID PzS - 115 AH / PLATE

Modell	U <sub>n</sub>	Capacity	Length (L)	Width (W)	Height (H)	Weight
2 PzS - 230 L	2 V	230 Ah	198 mm	47 mm	545/568 mm	14,0 kg
3 PzS - 345 L	2 V	345 Ah	198 mm	65 mm	545/568 mm	19,8 kg
4 PzS - 460 L	2 V	460 Ah	198 mm	83 mm	545/568 mm	25,6 kg
5 PzS - 575 L	2 V	575 Ah	198 mm	101 mm	545/568 mm	31,4 kg
6 PzS - 690 L	2 V	690 Ah	198 mm	119 mm	545/568 mm	37,2 kg
7 PzS - 805 L	2 V	805 Ah	198 mm	137 mm	545/568 mm	43,0 kg
8 PzS - 920 L	2 V	920 Ah	198 mm	155 mm	545/568 mm	48,8 kg
9 PzS - 1035 L	2 V	1035 Ah	198 mm	173 mm	545/568 mm	54,9 kg
10 PzS - 1150 L	2 V	1150 Ah	198 mm	191 mm	545/568 mm	60,7 kg

## RID PzS - 125 AH / PLATE

Modell	U <sub>n</sub>	Capacity	Length (L)	Width (W)	Height (H)	Weight
2 PzS - 250 L	2 V	250 Ah	198 mm	47 mm	570/593 mm	6,8 kg
3 PzS - 375 L	2 V	375 Ah	198 mm	65 mm	570/593 mm	9,6 kg
4 PzS - 500 L	2 V	500 Ah	198 mm	83 mm	570/593 mm	12,4 kg
5 PzS - 625 L	2 V	625 Ah	198 mm	101 mm	570/593 mm	15,3 kg
6 PzS - 750 L	2 V	750 Ah	198 mm	119 mm	570/593 mm	18,2 kg
7 PzS - 875 L	2 V	875 Ah	198 mm	137 mm	570/593 mm	21,1 kg
8 PzS - 1000 L	2 V	1000 Ah	198 mm	155 mm	570/593 mm	24,0 kg
9 PzS - 1125 L	2 V	1125 Ah	198 mm	173 mm	570/593 mm	26,9 kg
10 PzS - 1250 L	2 V	1250 Ah	198 mm	191 mm	570/593 mm	29,8 kg

# RID MOTIVE POWER BATTERIES FOR FORKLIFTS



## RID PzS - 140 AH / PLATE

Modell	U <sub>n</sub>	Capacity	Length (L)	Width (W)	Height (H)	Weight
2 PzS - 280 L	2 V	280 Ah	198 mm	47 mm	686/709 mm	20,6 kg
3 PzS - 420 L	2 V	420 Ah	198 mm	65 mm	686/709 mm	25,3 kg
4 PzS - 560 L	2 V	560 Ah	198 mm	83 mm	686/709 mm	32,2 kg
5 PzS - 700 L	2 V	700 Ah	198 mm	101 mm	686/709 mm	39,5 kg
6 PzS - 840 L	2 V	840 Ah	198 mm	119 mm	686/709 mm	46,7 kg
7 PzS - 980 L	2 V	980 Ah	198 mm	137 mm	686/709 mm	54,0 kg
8 PzS - 1120 L	2 V	1120 Ah	198 mm	155 mm	686/709 mm	61,2 kg
9 PzS - 1260 L	2 V	1260 Ah	198 mm	173 mm	686/709 mm	68,8 kg
10 PzS - 1400 L	2 V	1400 Ah	198 mm	191 mm	686/709 mm	76,0 kg

## RID PzS - 150 AH / PLATE

Modell	U <sub>n</sub>	Capacity	Length (L)	Width (W)	Height (H)	Weight
2 PzS - 310 L	2 V	310 Ah	198 mm	47 mm	720/743 mm	21,5 kg
3 PzS - 465 L	2 V	465 Ah	198 mm	65 mm	720/743 mm	26,1 kg
4 PzS - 620 L	2 V	620 Ah	198 mm	83 mm	720/743 mm	33,5 kg
5 PzS - 775 L	2 V	775 Ah	198 mm	101 mm	720/743 mm	41,1 kg
6 PzS - 930 L	2 V	930 Ah	198 mm	119 mm	720/743 mm	48,9 kg
7 PzS - 1085 L	2 V	1085 Ah	198 mm	137 mm	720/743 mm	56,7 kg
8 PzS - 1240 L	2 V	1240 Ah	198 mm	155 mm	720/743 mm	64,5 kg
9 PzS - 1395 L	2 V	1395 Ah	198 mm	173 mm	720/743 mm	72,8 kg
10 PzS - 1550 L	2 V	1550 Ah	198 mm	191 mm	720/743 mm	80,6 kg



### HOPPECKE GRID | POWER VR L SERIES OPzV

- Telecommunications
  - Mobile phone stations
  - BTS-stations
  - Off-grid/on-grid solutions
- Traffic systems
  - Signalling
  - Lighting
- Security lighting
- Maintenance-free regarding water refilling – due to innovative Gel-technology
- Very high expected service life – due to optimized lead-calcium alloy
- Very high cycle stability – due to tubular plate design
- Maximum compatibility – design according to DIN 40742
- Optimal space utilization – due to possibility of horizontal arrangement
- Higher short-circuit safety even during the installation – based on HOPPECKE system connectors

### HOPPECKE GRID | POWER VR L SERIES POWER.BLOC OPzV

#### Typical applications:

- Telecommunications
  - Mobile phone stations
  - BTS-stations
  - Off-grid/on-grid solutions
- Traffic systems
  - Signalling
  - Lighting
- Security lighting

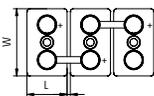
#### Your benefits:

- Maintenance-free regarding water refilling – due to innovative Gel-technology
- High expected service life – due to optimized lead-calcium alloy
- Very high cycle stability – due to tubular plate design
- Maximum compatibility – design according to DIN 40744
- Higher short-circuit safety even during the installation – based on HOPPECKE system connectors
- Easy assembly and installation – battery lid with integral handle

# OPzV HOPPECKE POWER VR L SERIES

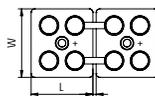
Modell	DIN Type	$C_8$ /1.75 V @ 25 °C	$C_{10}$ /1.80 V @ 20 °C	Length	Width	Height	Weight approx.	Fig.
grid   power VR L 2-215	4 OPzV 200	221 Ah	214 Ah	105 mm	208 mm	420 mm	18.3 kg	A
grid   power VR L 2-270	5 OPzV 250	276 Ah	267 Ah	126 mm	208 mm	420 mm	22.2 kg	A
grid   power VR L 2-325	6 OPzV 300	332 Ah	320 Ah	147 mm	208 mm	420 mm	26.5 kg	A
grid   power VR L 2-420	5 OPzV 350	419 Ah	412 Ah	126 mm	208 mm	535 mm	29.7 kg	A
grid   power VR L 2-500	6 OPzV 420	502 Ah	495 Ah	147 mm	208 mm	535 mm	35.0 kg	A
grid   power VR L 2-580	7 OPzV 490	587 Ah	577 Ah	168 mm	208 mm	535 mm	42.2 kg	A
grid   power VR L 2-720	6 OPzV 600	735 Ah	718 Ah	147 mm	208 mm	710 mm	49.4 kg	A
grid   power VR L 2-960	8 OPzV 800	983 Ah	957 Ah	215 mm	193 mm	710 mm	66.9 kg	B
grid   power VR L 2-1080	9 OPzV 900	1100 Ah	1077 Ah	215 mm	235 mm	710 mm	77.6 kg	B
grid   power VR L 2-1200	10 OPzV 1000	1225 Ah	1197 Ah	215 mm	235 mm	710 mm	81.6 kg	B
grid   power VR L 2-1320	11 OPzV 1100	1344 Ah	1316 Ah	215 mm	277 mm	710 mm	92.3 kg	B
grid   power VR L 2-1440	12 OPzV 1200	1467 Ah	1436 Ah	215 mm	277 mm	710 mm	96.4 kg	B
grid   power VR L 2-1570	12 OPzV 1500	1575 Ah	1570 Ah	215 mm	277 mm	855 mm	111.4 kg	B
grid   power VR L 2-1830	14 OPzV 1750	1837 Ah	1832 Ah	215 mm	400 mm	815 mm	144.0 kg	C
grid   power VR L 2-2100	16 OPzV 2000	2100 Ah	2093 Ah	215 mm	400 mm	815 mm	153.7 kg	C
grid   power VR L 2-2360	18 OPzV 2250	2362 Ah	2355 Ah	215 mm	490 mm	815 mm	180.0 kg	D
grid   power VR L 2-2620	20 OPzV 2500	2625 Ah	2617 Ah	215 mm	490 mm	815 mm	187.3 kg	D
grid   power VR L 2-2880	22 OPzV 2750	2887 Ah	2878 Ah	215 mm	580 mm	815 mm	213.2 kg	D
grid   power VR L 2-3140	24 OPzV 3000	3150 Ah	3140 Ah	215 mm	580 mm	815 mm	223.1 kg	D

Fig. A Series OPzV



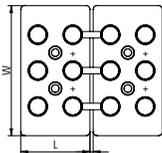
grid | power VR L 2-215 -  
grid | power VR L 2-720

Fig. B Series OPzV



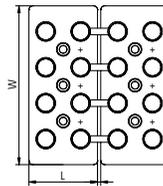
grid | power VR L 2-960 -  
grid | power VR L 2-1570

Fig. C Series OPzV



grid | power VR L 2-1830 -  
grid | power VR L 2-2100

Fig. D Series OPzV



grid | power VR L 2-2360 -  
grid | power VR L 2-3140

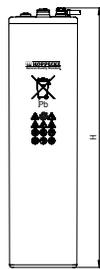
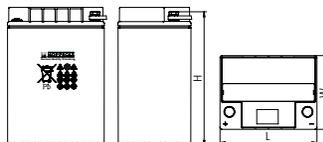
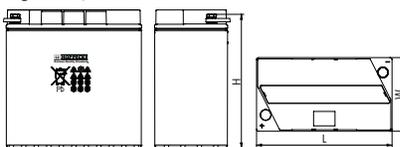


Fig. A Series power.bloc OPzV



grid | power VR L 12-50 -  
grid | power VR L 12-150

Fig. B Series power.bloc OPzV



grid | power VR L 6-200 -  
grid | power VR L 6-500

Modell	DIN Type	$C_8$ /1.75 V @ 25 °C	$C_{10}$ /1.80 V @ 20 °C	Length	Width	Height	Weight approx.	Fig.
grid   power VR L 12-50	12 V bloc OPzV 50	45 Ah	57 Ah	272 mm	205 mm	383 mm	34.0 kg	A
grid   power VR L 12-100	12 V bloc OPzV 100	91 Ah	114 Ah	272 mm	205 mm	383 mm	52.0 kg	A
grid   power VR L 12-150	12 V bloc OPzV 150	137 Ah	171 Ah	380 mm	205 mm	383 mm	74.0 kg	A
grid   power VR L 6-200	6 V bloc OPzV 200	183 Ah	228 Ah	272 mm	205 mm	383 mm	51.0 kg	B
grid   power VR L 6-250	6 V bloc OPzV 250	228 Ah	285 Ah	380 mm	205 mm	383 mm	66.0 kg	B
grid   power VR L 6-300	6 V bloc OPzV 300	274 Ah	342 Ah	380 mm	205 mm	383 mm	73.0 kg	B



### HOPPECKE GRID | POWER V H SERIES OGi BLOC

#### Typical applications:

- Power Supply Systems
- Uninterruptible power supply (UPS)
- Substations

#### Your benefits:

- Very good high-current capability – low investment costs due to innovative electrode structure
- Very high expected service life – due to optimized low-antimony selenium alloy
- Higher short-circuit safety even during the installation – based on HOPPECKE system connectors
- Extremely extended water refill intervals up to maintenance-free – optional use of AquaGen® recombination system minimizes emission of gas and aerosols<sup>1</sup>

### HOPPECKE GRID | POWER V H SERIES OGi BLOC

#### Typical applications:

- Railway applications
  - Railway control centers
  - Signal systems
  - Lighting
- Starter batteries for emergency power diesel generators
- Emergency lighting installations

#### Your benefits:

- Good high-current capability – low investment costs due to innovative electrode structure
- High expected service life – due to double separation
- Maximum compatibility – design according to DIN 40739
- Higher short-circuit safety even during the installation – based on HOPPECKE system connectors
- Extremely extended water refill intervals up to maintenance free – optional use of AquaGen® recombination system minimizes emission of gas and aerosols<sup>1</sup>

# 132 - 4177 Ah HOPPECKE SERIES OGi



Modell	DIN Type	C <sub>10</sub> /1.80 V	Length	Width	Height	Weight approx.	Weight electrolyte, (1.22 kg/l)	Fig.
grid   power V H 2-130	3 OSP.XC 120	132 Ah	105 mm	208 mm	420 mm	15,6 kg	5,4 kg	A
grid   power V H 2-175	4 OSP.XC 160	176 Ah	105 mm	208 mm	420 mm	16,9 kg	5,1 kg	A
grid   power V H 2-220	5 OSP.XC 200	220 Ah	105 mm	208 mm	420 mm	18,4 kg	4,9 kg	A
grid   power V H 2-265	6 OSP.XC 240	264 Ah	126 mm	208 mm	420 mm	22,0 kg	6,2 kg	A
grid   power V H 2-310	7 OSP.XC 280	308 Ah	126 mm	208 mm	420 mm	23,3 kg	6,0 kg	A
grid   power V H 2-355	8 OSP.XC 320	352 Ah	147 mm	208 mm	420 mm	26,7 kg	7,2 kg	A
grid   power V H 2-400	9 OSP.XC 360	396 Ah	189 mm	208 mm	420 mm	33,5 kg	11,6 kg	A
grid   power V H 2-445	10 OSP.XC 400	440 Ah	189 mm	208 mm	420 mm	34,0 kg	10,2 kg	A
grid   power V H 2-490	11 OSP.XC 440	484 Ah	189 mm	208 mm	420 mm	35,6 kg	9,4 kg	A
grid   power V H 2-410	4 OSP.XC 380	406 Ah	147 mm	208 mm	710 mm	40,6 kg	15,6 kg	A
grid   power V H 2-510	5 OSP.XC 475	507 Ah	147 mm	208 mm	710 mm	44,0 kg	15,1 kg	A
grid   power V H 2-610	6 OSP.XC 570	609 Ah	147 mm	208 mm	710 mm	47,3 kg	14,7 kg	A
grid   power V H 2-710	7 OSP.XC 665	710 Ah	147 mm	208 mm	710 mm	50,9 kg	14,1 kg	A
grid   power V H 2-810	8 OSP.XC 760	812 Ah	147 mm	208 mm	710 mm	53,8 kg	13,6 kg	A
grid   power V H 2-910	9 OSP.XC 855	913 Ah	215 mm	193 mm	710 mm	67,0 kg	18,7 kg	B
grid   power V H 2-1010	10 OSP.XC 950	1015 Ah	215 mm	193 mm	710 mm	70,6 kg	18,1 kg	B
grid   power V H 2-1120	11 OSP.XC 1045	1116 Ah	215 mm	193 mm	710 mm	73,6 kg	17,7 kg	B
grid   power V H 2-1220	12 OSP.XC 1140	1218 Ah	215 mm	235 mm	710 mm	84,6 kg	23,0 kg	B
grid   power V H 2-1320	13 OSP.XC 1235	1319 Ah	215 mm	235 mm	710 mm	88,2 kg	22,5 kg	B
grid   power V H 2-1420	14 OSP.XC 1330	1420 Ah	215 mm	235 mm	710 mm	91,1 kg	22,1 kg	B
grid   power V H 2-1520	15 OSP.XC 1425	1522 Ah	215 mm	277 mm	710 mm	102,1 kg	27,3 kg	B
grid   power V H 2-1620	16 OSP.XC 1520	1623 Ah	215 mm	277 mm	710 mm	105,2 kg	26,8 kg	B
grid   power V H 2-1720	17 OSP.XC 1615	1725 Ah	215 mm	277 mm	710 mm	108,4 kg	26,5 kg	B
grid   power V H 2-1740	15 OSP.XC 1725	1740 Ah	215 mm	277 mm	855 mm	123,5 kg	32,9 kg	B
grid   power V H 2-1860	16 OSP.XC 1840	1856 Ah	215 mm	277 mm	855 mm	127,5 kg	32,4 kg	B
grid   power V H 2-1980	17 OSP.XC 1955	1973 Ah	215 mm	277 mm	855 mm	131,2 kg	32,0 kg	B
grid   power V H 2-2100	18 OSP.XC 2070	2089 Ah	215 mm	400 mm	815 mm	162,5 kg	51,1 kg	C
grid   power V H 2-2340	20 OSP.XC 2300	2321 Ah	215 mm	400 mm	815 mm	170,0 kg	49,2 kg	C
grid   power V H 2-2820	24 OSP.XC 2760	2785 Ah	215 mm	490 mm	815 mm	216,4 kg	64,3 kg	D
grid   power V H 2-3060	26 OSP.XC 2990	3017 Ah	215 mm	490 mm	815 mm	224,7 kg	63,4 kg	D
grid   power V H 2-3300	28 OSP.XC 3220	3249 Ah	215 mm	490 mm	815 mm	231,9 kg	62,2 kg	D
grid   power V H 2-3540	30 OSP.XC 3450	3481 Ah	215 mm	580 mm	815 mm	253,8 kg	74,5 kg	D
grid   power V H 2-3780	32 OSP.XC 3680	3713 Ah	215 mm	580 mm	815 mm	262,4 kg	73,1 kg	D
grid   power V H 2-4020	34 OSP.XC 3910	3945 Ah	215 mm	580 mm	815 mm	270,3 kg	71,8 kg	D
grid   power V H 2-4260	36 OSP.XC 4140	4177 Ah	215 mm	580 mm	815 mm	277,6 kg	71,0 kg	D

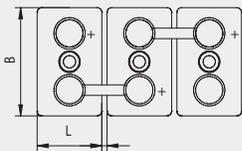
## HOPPECKE GRID | POWER V H SERIES OGi BLOC



Modell	DIN Type	C <sub>10</sub> /1.80 V	Length	Width	Height	Weight electrolyte, (1.24 kg/l)	Weight approx.	Fig.
grid power V H 6-20	OGi bloc 6 V 20	23 Ah	115 mm	178 mm	285 mm	9,5 kg	3,2 kg	A
grid power V H 6-40	OGi bloc 6 V 40	46 Ah	115 mm	178 mm	285 mm	12,0 kg	2,9 kg	A
grid power V H 6-60	OGi bloc 6 V 60	70 Ah	205 mm	178 mm	285 mm	18,7 kg	5,9 kg	A
grid power V H 6-80	OGi bloc 6 V 80	93 Ah	205 mm	178 mm	285 mm	21,2 kg	5,7 kg	A
grid power V H 6-100	OGi bloc 6 V 100	116 Ah	285 mm	178 mm	285 mm	27,8 kg	8,7 kg	A
grid power V H 6-110	OGi bloc 6 V 110	139 Ah	285 mm	178 mm	285 mm	30,6 kg	8,7 kg	A
grid power V H 6-130	OGi bloc 6 V 130	174 Ah	285 mm	232 mm	335 mm	40,9 kg	14,9 kg	A
grid power V H 6-160	OGi bloc 6 V 160	218 Ah	285 mm	232 mm	335 mm	44,9 kg	14,1 kg	A
grid power V H 6-200	OGi bloc 6 V 200	261 Ah	285 mm	232 mm	335 mm	49,4 kg	13,8 kg	A
grid power V H 6-230	OGi bloc 6 V 230	305 Ah	252 mm	232 mm	335 mm	40,7 kg	12,1 kg	B
grid power V H 6-260	OGi bloc 6 V 260	348 Ah	252 mm	232 mm	335 mm	43,2 kg	11,6 kg	B

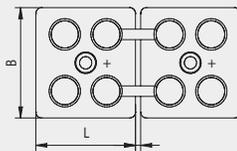
### HOPPECKE OSP - DESIGN LIFE: UP TO 18 YEARS

Fig. A Series OSP.XC



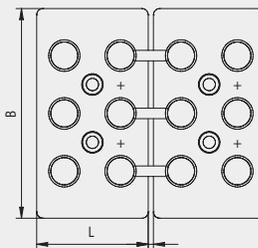
grid | power VH2-130 -  
grid | power VH2-810

Fig. B Series OSP.XC



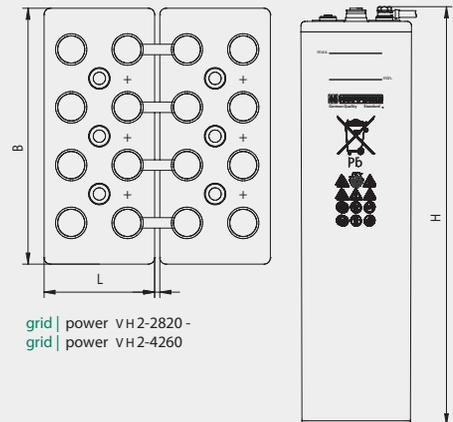
grid | power VH2-910 -  
grid | power VH2-1980

Fig. C Series OSP.XC



grid | power VH2-2100 -  
grid | power VH2-2340

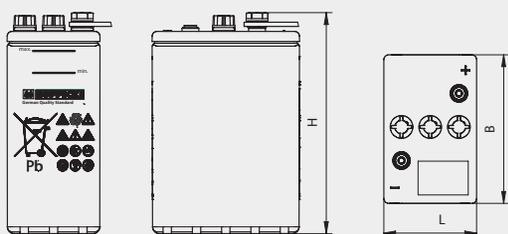
Fig. D Series OSP.XC



grid | power VH2-2820 -  
grid | power VH2-4260

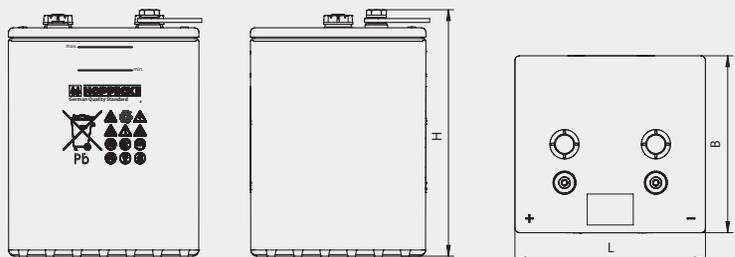
### HOPPECKE OGi BLOCK - DESIGN LIFE: UP TO 15 YEARS

Fig. A Series OGi bloc



grid | power VH6-20 - grid | power VH6-200

Fig. B Series OGi bloc



grid | power VH4-230 - grid | power VH4-260



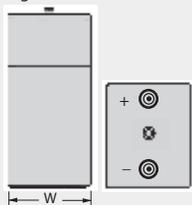
The **grid | power V X** (series **GroE**) is a low-maintenance, vented lead-acid 2V cell in conventional technology with liquid electrolyte (dilute sulfuric acid). It is characterized by its special structure as completely cast grid with a lamellar structure. The use of high-purity grid lead with a high electrode stability and a low acid density results in an expected design life of up to 25 years.

Where **grid | power V X** batteries are absolutely reliable energy suppliers in critical applications. Thanks to its excellent behaviour within the entire discharge voltage load, they are ideally suited for high-current discharges of short duration and thus predestined for use in power plants and switchgear.

The product design according to DIN 40738 ensures maximum compatibility when replacing and expanding existing systems and battery installations. In combination with the recombination system **HOPPECKE grid | AquaGen** you have the option of reducing maintenance costs to the point of being maintenance-free.

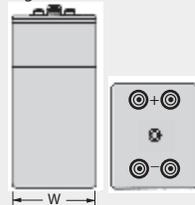
## HOPPECKE GroE - DESIGN LIFE: UP TO 25 YEARS

Fig. A



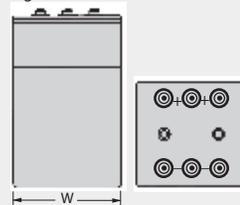
- grid | power V X2-75 -
- grid | power V X2-300
- grid | power V X2-500 -
- grid | power V X2-600

Fig. B



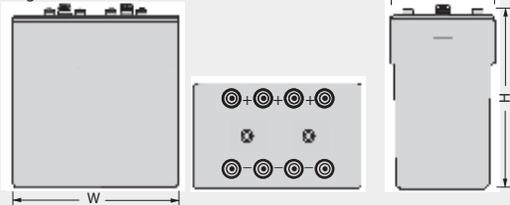
- grid | power V X2-325 -
- grid | power V X2-450
- grid | power V X2-700 -
- grid | power V X2-1100

Fig. C



- grid | power V X2-1200 -
- grid | power V X2-2000

Fig. D

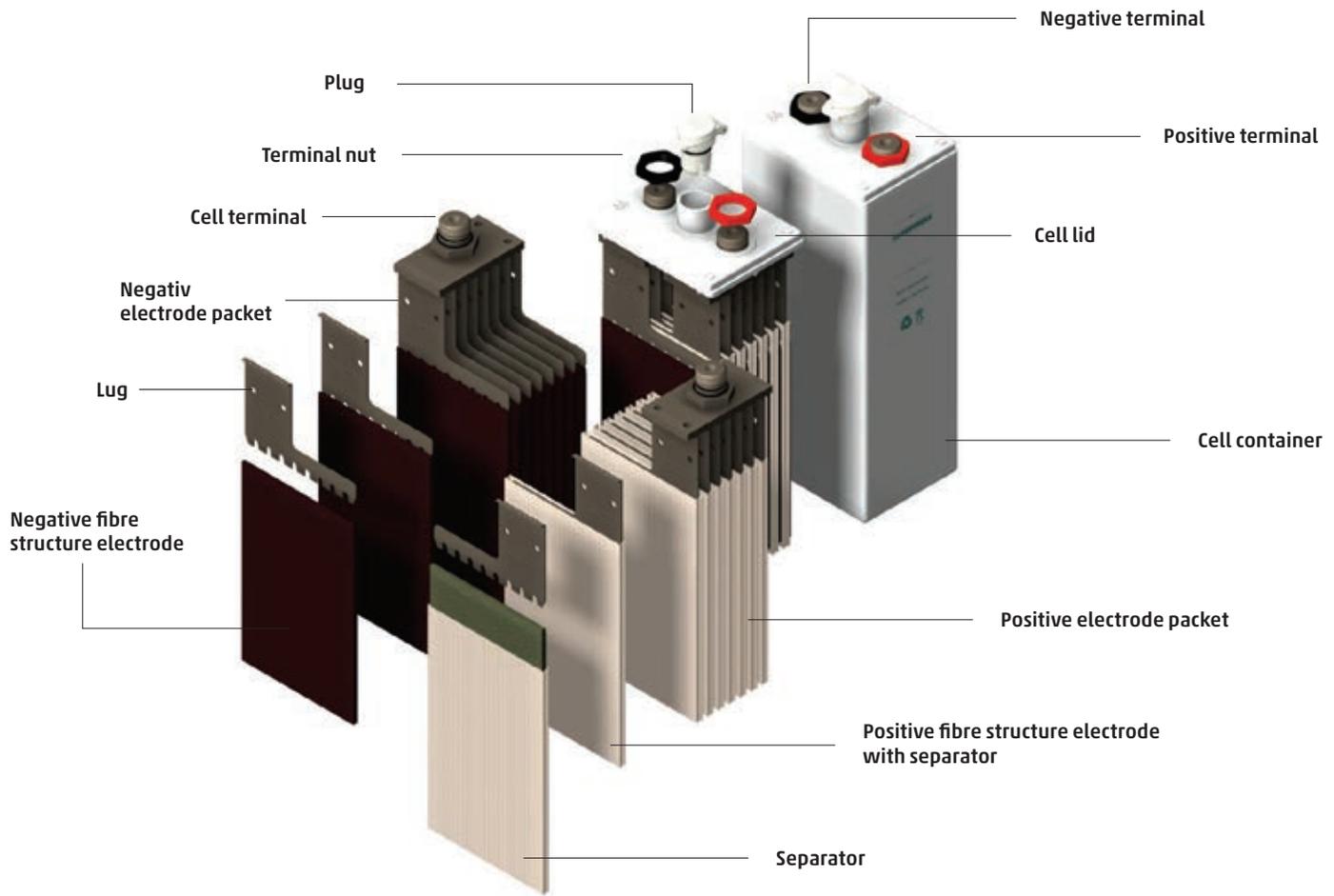


- grid | power V X2-2100 -
- grid | power V X2-2600

# 78 - 2860 Ah HOPPECKE SERIES GroE

Modell	DIN Type	C <sub>10</sub> /1.80 V	Length	Width	Height	Weight electrolyte, (1.22 kg/l)	Weight approx.	Fig.
grid   power V X 2-75	3GroE75	78 Ah	184 mm	155 mm	410 mm	6,6	17,30	A
grid   power V X 2-100	4GroE100	104 Ah	184 mm	155 mm	410 mm	6,5	19,40	A
grid   power V X 2-125	5GroE125	130 Ah	184 mm	155 mm	410 mm	6,3	21,50	A
grid   power V X 2-150	6GroE150	156 Ah	184 mm	155 mm	410 mm	6,1	23,40	A
grid   power V X 2-175	7GroE175	182 Ah	184 mm	155 mm	410 mm	5,9	25,40	A
grid   power V X 2-200	8GroE200	208 Ah	184 mm	230 mm	410 mm	9,7	32,20	A
grid   power V X 2-225	9GroE225	234 Ah	184 mm	230 mm	410 mm	9,5	34,10	A
grid   power V X 2-250	10GroE250	260 Ah	184 mm	230 mm	410 mm	9,3	36,20	A
grid   power V X 2-275	11GroE275	286 Ah	184 mm	230 mm	410 mm	9,1	38,20	A
grid   power V X 2-300	12GroE300	312 Ah	184 mm	230 mm	410 mm	8,9	40,00	A
grid   power V X 2-325	13GroE325	338 Ah	184 mm	340 mm	410 mm	14,3	50,20	B
grid   power V X 2-350	14GroE350	364 Ah	184 mm	340 mm	410 mm	14,1	52,10	B
grid   power V X 2-375	15GroE375	390 Ah	184 mm	340 mm	410 mm	13,9	54,20	B
grid   power V X 2-400	16GroE400	416 Ah	184 mm	340 mm	410 mm	13,7	56,10	B
grid   power V X 2-425	17GroE425	424 Ah	184 mm	340 mm	410 mm	13,5	58,10	B
grid   power V X 2-450	18GroE450	468 Ah	184 mm	340 mm	410 mm	13,5	60,20	B
grid   power V X 2-500	5GroE500	550 Ah	330 mm	270 mm	590 mm	37,0	93,60	A
grid   power V X 2-600	6GroE600	660 Ah	330 mm	270 mm	590 mm	36,1	101,00	A
grid   power V X 2-700	7GroE700	770 Ah	330 mm	270 mm	590 mm	35,2	110,80	B
grid   power V X 2-800	8GroE800	880 Ah	330 mm	270 mm	590 mm	34,3	118,30	B
grid   power V X 2-900	9GroE900	990 Ah	330 mm	270 mm	590 mm	33,4	125,70	B
grid   power V X 2-1000	10GroE1000	1100 Ah	330 mm	270 mm	590 mm	32,5	133,20	B
grid   power V X 2-1100	11GroE1100	1210 Ah	330 mm	270 mm	590 mm	31,6	142,40	B
grid   power V X 2-1200	12GroE1200	1320 Ah	330 mm	350 mm	590 mm	42,7	163,80	C
grid   power V X 2-1300	13GroE1300	1430 Ah	330 mm	350 mm	590 mm	41,8	171,20	C
grid   power V X 2-1400	14GroE1400	1540 Ah	330 mm	350 mm	590 mm	40,9	178,70	C
grid   power V X 2-1500	15GroE1500	1650 Ah	330 mm	350 mm	590 mm	40,0	188,60	C
grid   power V X 2-1600	16GroE1600	1760 Ah	330 mm	440 mm	590 mm	53,6	212,00	C
grid   power V X 2-1700	17GroE1700	1870 Ah	330 mm	440 mm	590 mm	52,7	219,40	C
grid   power V X 2-1800	18GroE1800	1980 Ah	330 mm	440 mm	590 mm	51,8	226,90	C
grid   power V X 2-1900	19GroE1900	2090 Ah	330 mm	440 mm	590 mm	50,9	234,40	C
grid   power V X 2-2000	20GroE2000	2200 Ah	330 mm	440 mm	590 mm	50,0	243,00	C
grid   power V X 2-2100	21GroE2100	2310 Ah	330 mm	530 mm	590 mm	65,2	270,70	D
grid   power V X 2-2200	22GroE2200	2420 Ah	330 mm	530 mm	590 mm	64,3	278,20	D
grid   power V X 2-2300	23GroE2300	2530 Ah	330 mm	530 mm	590 mm	63,4	285,60	D
grid   power V X 2-2400	24GroE2400	2640 Ah	330 mm	530 mm	590 mm	62,5	295,50	D
grid   power V X 2-2500	25GroE2500	2750 Ah	330 mm	575 mm	590 mm	68,1	309,00	D
grid   power V X 2-2600	25GroE2600	2860 Ah	330 mm	575 mm	590 mm	67,2	320,00	D

# 82 - 200 Ah FIBER STRUCTURE NICKEL CADMIUM BATTERY



## Service life up to 25 years

The FNC-Technology has the advantage that the electrolyte does not corrode the fibre structure plate. This increases the service life of the cells significantly.

## Minimum maintenance required and capable of high currents

The FNC electrode structure has an active fibre length of more than 300 m<sup>3</sup> per cm and a free volume of 90 % for the active material. The advantages: lower internal resistance, longer service intervals and high current capability.

## Lower operating costs

The graphite-free FNC electrodes consist of pure active material without additives. During the entire service life of the battery, therefore, no change of the electrolyte is necessary. This significantly reduces the operating costs and protects the environment.

## High cycle life

The high elasticity of the conductive material not only ensures a long service life, but also an excellent cycle life (over 3,000 cycles under EN-60623).

## Robust against external influences

A big advantage is its excellent resistance against electrical and mechanical abuse.

## Easy maintenance in stationary applications

In addition to the easy to open hinged lid plugs, the translucent polypropylene containers also make servicing easier for stationary use: they allow an easy check and correction of the electrolyte level.

## No sudden failure

The decrease in capacity towards the end of service life is slow and gradual, without the danger of sudden failure of the battery.

## Long shelf-life

Long shelf-life without loss of performance after putting into service.

## Our contribution to environmental protection: our own recycling concept

HOPPECKE Battery Systems makes a contribution in accordance with the EU guidelines for responsible handling of industrial batteries by meeting the recycling quota. We guarantee our customers that they can return spent nickel-cadmium batteries - regardless of the technology, the manufacturer or age of the batteries. For this we have developed and implemented our own recycling concept.

## Wide operating temperature range

HOPPECKE FNC-Cells can be operated reliably in a temperature range from -25 °C to +60 °C. Using a special electrolyte, temperatures of even -50 °C are possible.

# 78 - 2860 Ah FIBER STRUCTURE NICKEL CADMIUM BATTERY

Modell	Capacity C <sub>5</sub> (Ah)	Length (mm)	Width (mm)	Height (mm)	Filling capacity (l)	Weight of cell with electrolyte (kg)
FNC 35 L	35	39	122	250	0,38	1,70
FNC 50 L	50	47	122	250	0,46	2,15
FNC 70 L	70	58	122	250	0,55	2,60
FNC 45 L	45	47	122	309	0,84	2,50
FNC 66 L	66	47	122	309	0,63	2,65
FNC 90 L	90	72	122	309	1,18	3,85
FNC 110 L	110	72	122	309	1,01	4,10
FNC 132 L	132	92	122	309	1,55	5,15
FNC 154 L	154	92	122	309	1,34	5,40
FNC 176 L	176	115	122	309	1,76	6,40
FNC 198 L	198	115	122	309	1,34	6,50
FNC 222 L	222	92	194	309	2,23	8,50
FNC 259 L	259	92	194	309	1,93	8,80
FNC 296 L	296	115	194	309	2,77	10,60
FNC 333 L	333	115	194	309	2,52	11,00
FNC 370 L	370	115	194	309	2,18	11,10
FNC 407 L	407	155	198	309	3,36	14,10
FNC 444 L	444	155	198	309	3,11	14,50
FNC 481 L	481	155	198	309	2,77	14,80
FNC 518 L	518	155	198	309	2,61	15,20
FNC 560 L	560	157	158	405	3,40	16,90
FNC 605 L	605	202	209	405	7,50	24,20
FNC 660 L	660	202	209	405	7,06	24,70
FNC 715 L	715	202	209	405	6,71	25,20
FNC 770 L	770	202	209	405	6,26	28,80
FNC 825 L	825	202	209	405	5,91	26,30
FNC 880 L	880	202	209	405	5,47	26,80
FNC 935 L	935	238	209	405	7,5	30,50
FNC 990 L	990	238	209	405	7,06	31,00
FNC 1045 L	1045	238	209	405	6,62	31,50
FNC 1100 L	1100	238	209	405	6,26	32,10

Modell	Capacity C <sub>5</sub> (Ah)	Length (mm)	Width (mm)	Height (mm)	Filling capacity (l)	Weight of cell with electrolyte (kg)
FNC 40 M	40	47	122	309	0,84	2,60
FNC 60 M	60	47	122	309	0,55	2,80
FNC 80 M	80	72	122	309	1,05	3,95
FNC 100 M	100	72	122	309	0,88	4,15
FNC 120 M	120	92	122	309	1,43	5,35
FNC 140 M	140	92	122	309	1,22	5,60
FNC 160 M	160	115	122	309	1,60	6,65
FNC 180 M	180	115	122	309	1,43	6,90
FNC 200 M	200	92	194	309	2,06	8,70
FNC 235 M	235	92	194	309	1,76	8,85
FNC 265 M	265	115	194	309	2,10	10,50
FNC 300 M	300	115	194	309	1,93	11,20
FNC 340 M	340	157	158	405	4,58	15,05
FNC 375 M	375	157	158	405	4,33	15,55
FNC 415 M	415	157	158	405	4,08	16,05
FNC 450 M	450	157	158	405	3,82	16,55

Modell	Capacity C <sub>5</sub> (Ah)	Length (mm)	Width (mm)	Height (mm)	Filling capacity (l)	Weight of cell with electrolyte (kg)
FNC 35 H	35	47	122	309	0,76	2,60
FNC 46 H	46	47	122	309	0,67	2,80
FNC 58 H	58	72	122	309	1,18	3,95
FNC 69 H	69	72	122	309	1,09	4,15
FNC 80 H	80	72	122	309	0,92	4,30
FNC 93 H	93	92	122	309	1,43	5,40
FNC 104 H	104	92	122	309	1,34	5,55
FNC 115 H	115	115	122	309	1,81	6,60
FNC 125 H	125	115	122	309	1,64	6,90
FNC 135 H	135	115	122	309	1,51	7,05
FNC 140 H	140	92	194	309	2,31	8,45
FNC 160 H	160	92	194	309	2,10	8,75
FNC 180 H	180	92	194	309	1,89	9,00
FNC 200 H	200	115	194	309	2,82	10,85
FNC 220 H	220	115	194	309	2,56	11,10
FNC 240 H	240	115	194	309	2,44	11,45





## SOCOMECS UPS - A COMPLETE SOLUTION FOR YOUR EMERGENCY SYSTEMS

The Socomec UPS products are intended to ensure energy supply to emergency escape lighting in the event of mains supply failure. Depending on the local legislation, it may be suitable for energizing other essential safety equipment, such as:

- | electric circuits of automatic fire extinguishing installations
- | paging systems and signaling safety installations
- | smoke extraction equipment
- | carbon monoxide warning systems
- | special safety installations related to specific buildings, e.g. high-risk areas

The wide range is suitable for all standard needs. For non-standard requests, our team of experts is on hand to adapt the products to your needs

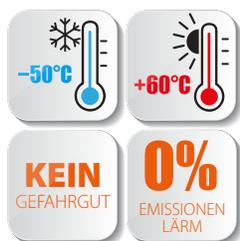
### STANDARD COMMUNICATION FEATURES

- | User-friendly touch-screen multilingual colour graphic display
- | Slots for communication options
- | Dry-contact interface (configurable voltage-free contacts)

### COMMUNICATION OPTIONS

- | Dry-contact interface (configurable voltage-free contacts)
- | MODBUS RTU RS485 or MODBUS TCP
- | NET VISION: professional WEB/SNMP
- | Ethernet interface for secure UPS monitoring and remote

## RID BATTERY STORAGE 15 KVA NiCd



RID Power Cell - Battery storage		
Nom. output 3~	kWh	15
Voltage (1~) / (3~)	V	230 / 400
Nom. total current	A	52
Dimensions (L x W x H)	mm	1760 x 980 x 1660
Weight	kg	1400

Battery type		
Battery system voltage	VDC	48
DoD% (Depth of discharge)		93
Quantity	Stück	36
Type		NiCd (Nickel-Cadmium)
Number of cycles		3000

Inverter Sierra 25-48		
Quantity	Stück	12
Total rated power	kVA	36
Max. charging current	A	100
Protection class	mm	IP23
Operating temperature	°C	-50 bis +60

# BATTERIES DIAGNOSTICS



Modell	Un, V	DC Voltage Range, V	Dimensions, mm			Weight, kg
			mm	mm	mm	
RID BRG-20 BATTERY REGENERATOR		1V-20V/35A	404	271	210	12,5
RID BRG-35 BATTERY REGENERATOR		2V-35V/45A	404	271	210	13,5
RID BRG-60 BATTERY REGENERATOR		3V-65V/15A	404	271	210	12,5
RID BMG-30 BATTERY TESTER		0,1V-30V	190	119	38	0,7
RID BATTERY LOGGER		7V-95V	62	34	62	0,10



## RID REGENERATOR - 12V

Repair of all types of Batteries: Sb, Ca, Silver, Ca+, Li, NiCd, AGM, GEL.  
Of any equipment: forklifts, vehicles, snowmobiles, hand-held tools, floor polishers, etc.

Discharge test to ascertain actual capacity by the methodology specified by the manufacturer

Automatic generation of maintenance program

Repair capability of a re-polarized battery



## RID TESTER

- DC voltage measurement voltage
- Measurement of parameters internal resistance
- Can set the frequency measurement
- Battery characteristics can be the characteristics of the battery can be while the battery is operating in the system, without interrupting the circuit



# BATTERY TESTING AND RECOVERY LABORATORY

Welcome to our specialized test laboratory for all types of batteries! We offer you comprehensive services related to batteries - from diagnostics to repairs. Regardless of whether it is vehicle batteries, industrial batteries, batteries for mobile devices or special lithium-ion batteries - you are in the best hands with us.

## Battery diagnostics

We carry out precise diagnostics to check the condition of your battery. Using the latest measuring technology, we analyze the performance, voltage and service life of your battery and can thus determine whether a repair or replacement is necessary.

## Different battery types

Our laboratory specializes in a wide range of battery types - from automotive batteries to e-bike batteries to specialized industrial batteries. Whether it's standard or high-tech batteries, we have the expertise and technology to test and repair any type of battery.

## Customized solutions

We offer customized solutions tailored to your individual needs. If you have special requirements for your batteries, we are happy to assist you with our specialist knowledge and expertise.

## Replacement batteries and upgrades

We offer customized solutions tailored to your individual needs. If you have special requirements for your batteries, we are happy to assist you with our specialist knowledge and expertise.

## Battery repair

In many cases it is not necessary to replace the battery completely. Our experts will repair your battery and bring it back to optimal condition. We offer repairs for a variety of battery types to extend the service life of your devices and save costs.



Why choose us?

- **Expertise:** Our team consists of experienced technicians who specialize in battery repair and diagnostics.
- **State-of-the-art technology:** We use sophisticated testing equipment to ensure that each battery is thoroughly tested.
- **Customer satisfaction:** Your trust is important to us. We offer fast, reliable and cost-effective solutions.

Visit us in our lab to learn more about our services or contact us directly to schedule a battery test or repair. We look forward to helping you get your batteries back in top shape!





**RID BATTERY • GERMANY**



***RID XTREME***

for Uninterruptible  
Power Supply (UPS)



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**Our official sales partner:**

