

Sonnenschein RAIL

Technical data sheet

Technical features:

- Nominal capacity 33–240Ah (C_5 1,70V/C 30°C)
- Dryfit® Gel – VRLA technology
- Excellent energy storage capacity combined with high reliability
- Proof against deep discharge – greater long-term energy delivery
- Maintenance-free (no topping up) during the whole service life
- Outstanding standby and cycling performance – Long life
- Grid plate construction with high quality lead calcium alloy, specially designed for enhanced energy density
- Very low gassing due to the internal gas recombination
- Superior cycling performance
- Completely recyclable – low CO₂ footprint

Standards & certifications:

- Designed in accordance with IEC 62973-3, EN 50547 & IEC 60896-21/22
- Improved fire protection according to EN 45545-2 HL3; flame retardant according to UL94 V-0
- Shock & vibration tests performed according to IEC 61373 standard
- Trouble-free transport of operational blocks, no restrictions for rail, road, sea, and air transportation (IATA, DGR, clause A67)
- Manufactured in Germany in our ISO 9001 certified production facility
- Approval: UL (Underwriters Laboratories, USA), VdS, DNV GL (Germanischer Lloyd)



Design life
up to 8 years



Nominal capacity
33–240Ah



Block battery



Grid plate



Recyclable



Valve regulated
lead-acid
batteries



Proof against
deep discharge



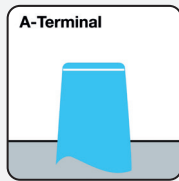
Maintenance free
(no topping up)

Container, terminal and torque

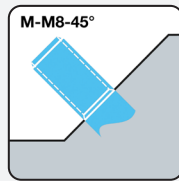
33–240Ah = Polypropylene (PP)



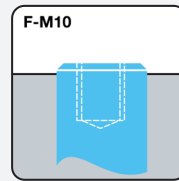
6 Nm



8 Nm



8 Nm



17 Nm

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Technical characteristics and data

Type	Part number	Nominal voltage V	Nominal capacity	Capacity			Length	Width	Height	Weight* approx. kg	Terminal
			C ₅ in Ah 1.70 V/C 30 °C	C ₁₀ in Ah 1.80 V/C 20 °C	C ₂₀ in Ah 1.75 V/C 30 °C	(l)	(w)	(h)			
			Ah	Ah	Ah	max. mm	max. mm	max. mm			
SR 6V 180 A HL3	NGRC060180GS0CA	6	180	185	200	244	190	275	31	A	
SR 6V 240 A**	NGRC060240HS0CA	6	240	246	270	312	182	359	47	A	
SR 12V 33 G V0***	NGRC120033VS0BA	12	33	34	38	210	175	175	14,2	G-M6	
SR 12V 40 A HL3	NGRC120040GS0CA	12	40	41	48	242	175	190	17,5	A	
SR 12V 51 A HL3	NGRC120051GS0CA	12	51	52	56	278	175	190	20,3	A	
SR 12V 55 A HL3	NGRP120055GS0CA	12	55	56	65	278	175	190	20,8	A	
SR 12V 61 F10 HL3	NGRL120061GS0FA	12	61	63	70	353	175	196	23,6	F-M10	
SR 12V 61 A HL3	NGRL120061GS0CA	12	61	63	70	353	175	190	23	A	
SR 12V 65 G HL3	NGRC120065GS0BA	12	65	67	78	353	175	190	25,5	G-M6	
SR 12V 82 A RF HL3	NGRP120075GS0CA	12	75	77	82	330	171	236	29,2	A	
SR 12V 75 A HL3	NGRC120075GS0CA	12	75	77	82	353	175	190	25,5	A	
SR 12V 88 A RF HL3	NGRP120080GS0CB	12	80	82	88	330	171	236	29,2	A	
SR 12V 80 A HL3	NGRP120080GS0CA	12	80	82	88	330	171	236	29,2	A	
SR 12V 85 F10 HL3	NGRL120085GS0FA	12	85	87	105	284	267	237	33,5	F-M10	
SR 12V 105 F10 HL3	NGRC120105GS0FA	12	105	108	120	345	172	289	38	F-M10	
SR 12V 105 A HL3	NGRC120105GS0CA	12	105	108	120	345	172	283	36	A	
SR 12V 122 A HL3	NGRP120122GS0CA	12	122	125	145	223	513	223	47	A	
SR 12V 155 FT HL3	NGRL120155GS0MA	12	155	159	180	128	568	320	57	M-M8-45°	
SR 12V 165 A HL3	NGRL120165GS0CA	12	165	169	190	274	518	238	63	A	
SR 12V 175 F10 HL3	NGRP120175GS0FA	12	175	180	205	274	518	238	67,5	F - M10	
SR 12V 175 A HL3	NGRP120175GS0CA	12	175	180	205	274	518	238	67	A	
SR 12V 190 A HL3	NGRP120190GS0CA	12	190	195	210	274	518	238	68	A	

* Actual weight may differ by ±5%

** UL94 HB certified, EN 45545-2 HL3 available upon request

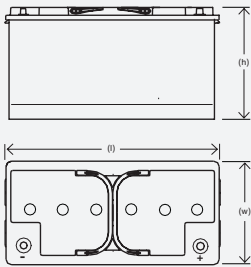
*** UL94 V-0 certified, EN 45545-2 HL3 available upon request

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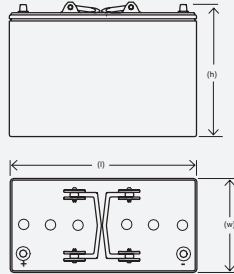
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Drawings

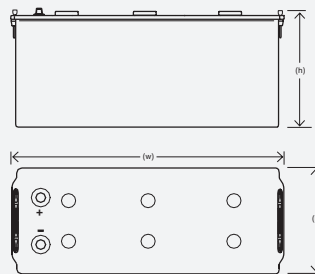
SR 12V 51 A HL3
SR 12V 55 A HL3



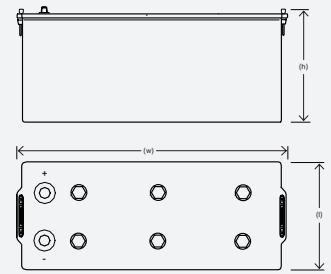
SR 12V 82 A RF HL3
SR 12V 88 A RF HL3
SR 12V 80 A HL3



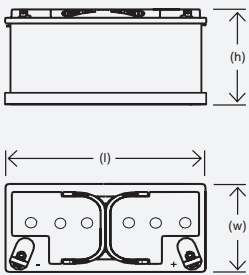
SR 12V 122 A HL3



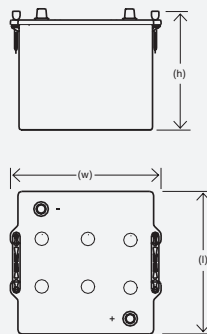
SR 12V 165 A HL3
SR 12V 175 F10 HL3
SR 12V 175 A HL3
SR 12V 190 A HL3



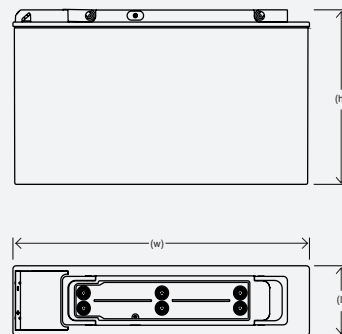
SR 12V 61 F10 HL3
SR 12V 61 A HL3
SR 12V 65 G HL3
SR 12V 75 A HL3



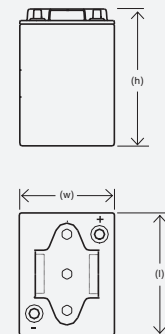
SR 12V 85 F10 HL3



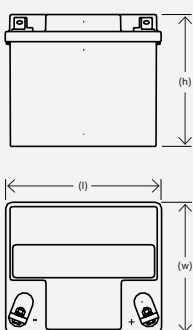
SR 12V 155 FT HL3



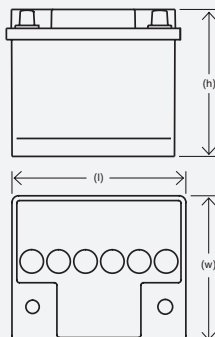
SR 6V 180 A HL3



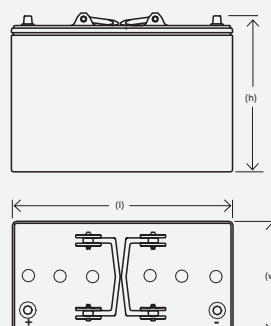
SR 12V 33 G V0



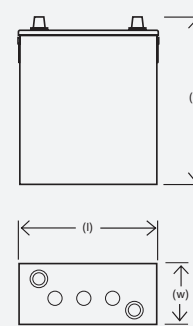
SR 12V 40 A HL3



SR 12V 105 F10 HL3
SR 12V 105 A HL3



SR 6V 240 A HL3



Not to scale!