









Industrial Batteries – Network Power  
Sonnenschein SOLAR  
Safe storage capacity for renewable energy.

Specifications

# The compact alternative for smaller solar applications.

Sonnenschein SOLAR batteries are specially designed for small to medium performance requirements in leisure and consumer applications. The advantages of the maintenance free VRLA-batteries are enhanced by the worldwide high reputation and technical image of the dryfit technology. Typical applications are weekend and holiday houses without mains supply, street solar stations, information signs, parking meters, wireless emergency phone boxes and also other safety equipment power supplies.

	
Nominal capacity 6.6 – 230 Ah	Block battery
	
Grid plate	800 cycles acc. to IEC 896-2
	
Valve regulated lead- acid batteries	Recyclable
	
Proof against deep discharge	Maintenance-free (no topping-up)

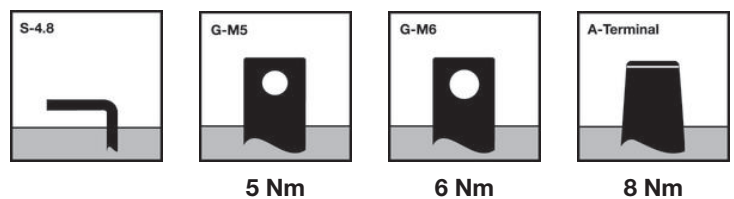
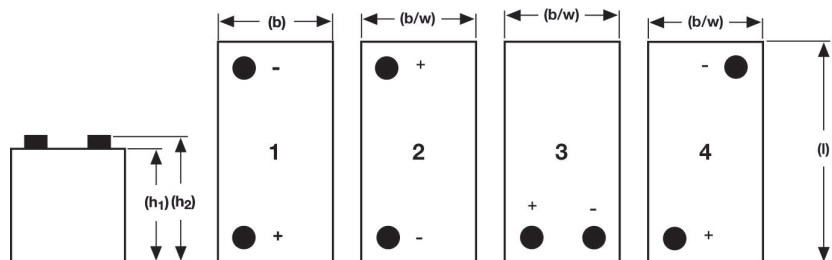


## Technical characteristics and data

Exide type designation	Part number	Nom. voltage	Nominal capacity	Discharge current	Length (l)	Width (b/w)	Height up to top of cover (h1)	Height incl. connectors (h2)	Weight approx. kg	Terminal	Terminal position
		V	C <sub>100</sub> 1.80 Vpc Ah	I <sub>100</sub> A	max. mm	max. mm	max. mm	max. mm			
S12/6.6 S	NGS01206D6HSOSA	12	6.60	0.06	152	65.5	94.5	98.4	2.60	S-4.8	3
S12/17 G5	NGS0120017HSOBA	12	17.0	0.17	181	76.0	-	167	6.10	G-M5	1
S12/27 G5	NGS0120027HSOBA	12	27.0	0.27	167	176	-	126	9.60	G-M5	1
S12/32 G6	NGS0120032HSOBA	12	32.0	0.32	197	132	160	184	11.1	G-M6	2
S12/41 A	NGS0120041HSOCA	12	41.0	0.41	210	175	-	175	14.6	A-Terminal	1
S12/60 A	NGS0120060HSOCA	12	60.0	0.60	261	136	208	230	19.0	A-Terminal	1
S12/85 A	NGS0120085HSOCA	12	85.0	0.85	353	175	-	190	26.8	A-Terminal	1
S12/90 A	NGS0120090HSOCA	12	90.0	0.90	330	171	213	236	30.0	A-Terminal	2
S12/130 A	NGS0120130HSOCA	12	130	1.30	286	269	208	230	39.0	A-Terminal	4
S12/230 A	NGS0120230HSOCA	12	230	2.30	518	274	216	238	67.0	A-Terminal	3

Capacities C <sub>1</sub> – C <sub>100</sub> (20 °C)					
Type	C <sub>1</sub> 1.70 Vpc	C <sub>5</sub> 1.70 Vpc	C <sub>10</sub> 1.70 Vpc	C <sub>20</sub> 1.75 Vpc	C <sub>100</sub> 1.80 Vpc
S12/6.6 S	2.90	4.60	5.10	5.70	6.60
S12/17 G5	9.30	12.6	14.3	15.0	17.0
S12/27 G5	15.0	22.1	23.5	24.0	27.0
S12/32 G6	16.9	24.4	27.0	28.0	32.0
S12/41 A	21.0	30.6	34.0	38.0	41.0
S12/60 A	30.0	42.5	47.5	50.0	60.0
S12/85 A	55.0	68.5	74.0	76.0	85.0
S12/90 A	50.5	72.0	78.0 <td 84.0	90.0	
S12/130 A	66.0	93.5	104	110	130
S12/230 A	120	170	190	200	230









## Drawings with terminal position, terminal and torque



Not to scale!

# Safe power supply for medium performance.

The Sonnenschein SOLAR BLOCK battery range is very powerful and reliable in rough application conditions. As well as for use in private areas like holiday and weekend houses with more consumer terminals, this range is the ideal energy source for medium industrial solar systems, small solar and wind powerstations, offshore buoys, yachts and measuring stations as well as for other safety equipment power supplies.

	
Nominal capacity 60 – 330 Ah	Block battery
	
Grid plate	1200 cycles acc. to IEC 896-2
	
Valve regulated lead- acid batteries	Recyclable
	
Proof against deep discharge	Maintenance-free (no topping-up)

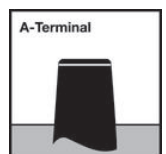
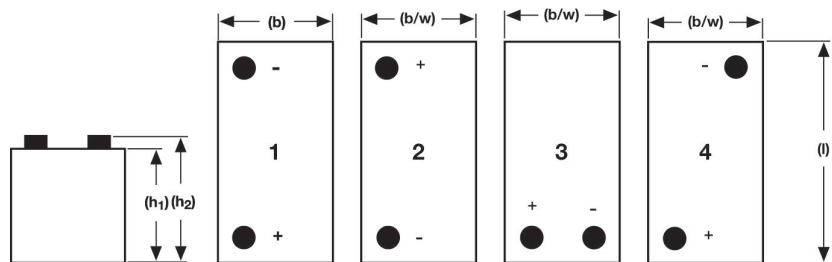


## Technical characteristics and data

Exide type designation	Part number	Nom. voltage	Nominal capacity	Discharge current	Length (l)	Width (b/w)	Height up to top of cover (h1)	Height incl. connectors (h2)	Weight approx. kg	Terminal	Terminal position
		V	C <sub>100</sub> 1.80 Vpc Ah	I <sub>100</sub> A	max. mm	max. mm	max. mm	max. mm			
SB 6/200 A	NGSB060200HSOCA	6	200	2.00	190	244	254	275	29.0	A-Terminal	4
SB 6/330 A	NGSB060330HSOCA	6	330	3.30	312	182	337	359	47.0	A-Terminal	4
SB12/60 A	NGSB120060HSOCA	12	60.0	0.60	278	175	-	190	19.0	A-Terminal	1
SB12/75 A	NGSB120075HSOCA	12	75.0	0.75	330	171	214	236	26.5	A-Terminal	2
SB12/100 A	NGSB120100HSOCA	12	100	1.00	513	189	195	223	36.5	A-Terminal	3
SB12/130 A	NGSB120130HSOCA	12	130	1.30	513	223	195	223	45.5	A-Terminal	3
SB12/185 A	NGSB120185HSOCA	12	185	1.85	518	274	216	238	62.5	A-Terminal	3

Capacities C <sub>1</sub> - C <sub>100</sub> (20 °C)					
Type	C <sub>1</sub> 1.70 Vpc	C <sub>5</sub> 1.70 Vpc	C <sub>10</sub> 1.70 Vpc	C <sub>20</sub> 1.75 Vpc	C <sub>100</sub> 1.80 Vpc
SB 6/200 A	104	153	162	180	200
SB 6/330 A	150	235	260	280	330
SB12/60 A	34.0	45.0	52.0	56.0	60.0
SB12/75 A	48.0	60.0	66.0	70.0	75.0
SB12/100 A	57.0	84.0	89.0	90.0	100
SB12/130 A	78.0	101	105	116	130
SB12/185 A	103	150	155	165	185

## Drawings with terminal position, terminal and torque



8 Nm









Not to scale!

# Power for high capacity requirements.

Sonnenschein A600 SOLAR batteries are developed for medium to large solar powered applications. The recyclability and long storage life without recharge makes this environmentally friendly solar battery system absolutely recommendable for various requirement profiles. Typical applications for these maintenance free VRLA-batteries with successful dryfit technology, are solar and wind power stations, power distribution companies, telecommunications, railways and many other safety equipment power supplies.

The mounting in vertical as well as horizontal position is possible.



			
Nominal capacity 288 – 3924 Ah	Single cell	Tubular plate	1600 cycles acc. to IEC 896-2
			
Valve regulated lead-acid batteries	Recyclable	Proof against deep discharge	Maintenance- free (no topping- up)

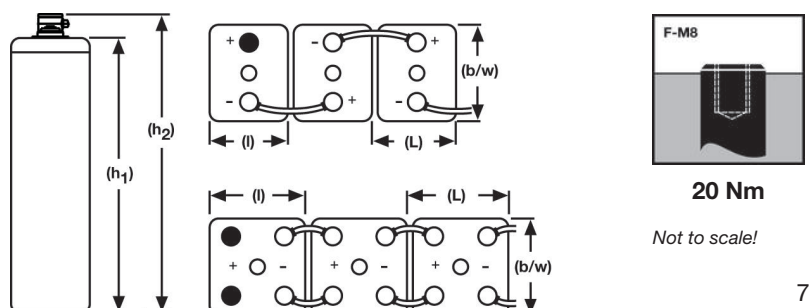


## Technical characteristics and data

Exide type designation	Part number	Nom. voltage	Nominal capacity	Discharge current	Length (l)	Width (b/w)	Height up to top of cover (h1)	Height incl. connectors (h2)	Installed length (L)	Weight approx. kg	Terminal	Pole pairs
		V	C <sub>120</sub> 1.85 Vpc Ah	I <sub>100</sub> A	max. mm	max. mm	max. mm	max. mm				
4 OPzV 240	NGS6020240HS0FA	2	288	2.90	105	208	357	399	113	19.5	F-M8	1
5 OPzV 300	NGS6020300HS0FA	2	372	3.60	126	208	357	399	134	23.5	F-M8	1
6 OPzV 360	NGS6020360HS0FA	2	444	4.30	147	208	357	399	155	28.0	F-M8	1
5 OPzV 400	NGS6020400HS0FA	2	516	5.10	126	208	473	515	134	31.0	F-M8	1
6 OPzV 500	NGS6020500HS0FA	2	624	6.10	147	208	473	515	155	36.5	F-M8	1
7 OPzV 600	NGS6020600HS0FA	2	732	7.10	168	208	473	515	176	42.0	F-M8	1
6 OPzV 720	NGS6020720HS0FA	2	852	8.30	147	208	648	690	155	50.0	F-M8	1
8 OPzV 960	NGS6020960HS0FA	2	1128	11.1	212	193	648	690	220	68.0	F-M8	2
10 OPzV 1200	NGS6021200HS0FA	2	1416	13.8	212	235	648	690	220	82.0	F-M8	2
12 OPzV 1400	NGS6021400HS0FA	2	1692	16.6	212	277	648	690	220	97.0	F-M8	2
12 OPzV 1700	NGS6021700HS0FA	2	1956	19.1	212	277	798	840	220	120	F-M8	2
16 OPzV 2300	NGS6022300HS0FA	2	2616	25.5	216	400	774	816	223	160	F-M8	3
20 OPzV 2900	NGS6022900HS0FA	2	3264	31.8	214	489	774	816	223	200	F-M8	4
24 OPzV 3500	NGS6023500HS0FA	2	3924	38.2	214	578	774	816	223	240	F-M8	4

Capacities in Ah C <sub>1</sub> – C <sub>100</sub> (20 °C)					
Type	C <sub>1</sub> 1.67 Vpc	C <sub>3</sub> 1.75 Vpc	C <sub>5</sub> 1.77 Vpc	C <sub>10</sub> 1.80 Vpc	C <sub>100</sub> 1.85 Vpc
4 OPzV 240	123	167	193	218	290
5 OPzV 300	154	209	241	272	360
6 OPzV 360	185	251	290	326	430
5 OPzV 400	229	307	342	380	510
6 OPzV 500	275	369	410	456	610
7 OPzV 600	321	431	479	532	710
6 OPzV 720	367	513	626	681	830
8 OPzV 960	489	684	834	908	1110
10 OPzV 1200	612	855	1043	1135	1380
12 OPzV 1400	734	1026	1252	1363	1660
12 OPzV 1700	785	1161	1336	1519	1910
16 OPzV 2300	1047	1548	1782	2025	2550
20 OPzV 2900	1309	1935	2228	2532	3180
24 OPzV 3500	1571	2322	2673	3038	3820

## Drawings with terminal position, terminal and torque



# Exide Technologies Industrial Energy – The Industry Leader.



Exide Technologies, with subsidiaries in 80 countries, is one of the world's largest manufacturers and recyclers of lead-acid batteries. Exide provides a comprehensive and customized range of stored electrical energy solutions.

Based on over 100 years of experience in the development of innovative technologies, Exide is an esteemed partner of OEMs and serves the spare parts market for industrial and transportation applications. The Industrial Energy business unit offers an extensive range of storage products and services, including solutions for

telecommunications systems, railway applications, mining, photovoltaic (solar energy), uninterruptible power supply (UPS), electrical power generation and distribution, fork lifts and electric vehicles.

Exide Technologies takes pride in its commitment to a better environment. Its Total Battery Management programme, (an integrated approach to manufacturing, distributing and recycling of lead-acid batteries), has been developed to ensure a safe and responsible life cycle for all of its products.