

Industrial Batteries / Network Power

Sonnenschein SOLAR



»Premium quality for renewable energy«



Sonnenschein A600 SOLAR

Unmatched dryfit Gel technology for renewable energy storage

Sonnenschein A600 SOLAR is a premium range, developed specifically for applications where cycling is required. It has extraordinary energy-saving features in addition to robust reliability, proven for decades in many installations worldwide.

Your benefits:

- > **Exceptional cycling performance** – 3000+ cycles* at 60 % Depth of Discharge C_{10}
- > **dryfit Gel** – VRLA technology
- > **Lowest energy consumption** – saving costs
- > **Strong tubular plate technology** – for longer life in the toughest conditions
- > **Proof against deep discharge** – greater long-term energy delivery
- > **Horizontal mounting possible** – easy installation and maintenance
- > **Completely recyclable** – low CO₂ footprint



Specifications:

- > Nominal capacity 294 – 3919 Ah C_{120} (20 °C)
- > Cycling performance at 20 °C (with IU charging): 2400 cycles at 60 % Depth of Discharge (C_{10}) at 20 °C
For enhanced performance and for systems ≥ 48 V we recommend IUI charging, to reach 3000+ cycles at 20 °C
- > Designed in accordance with IEC 61427 and IEC 60896-21/22
- > Long shelf life up to 2 years at 20 °C without recharge due to the very low self discharge rate
- > Also available as flame-retardant version on request (V0)
- > Manufactured in Europe in our ISO 9001 certified production plants
- > Trouble-free transport of operational cells, no restrictions for rail, road, sea and air transportation (IATA, DGR, clause A67)
- > Approval: UL (Underwriter Laboratories), DNV GL (Germanischer Lloyd)

Nominal capacity 294 – 3919 Ah C_{120}	Single cell	Tubular plate	Recyclable	Valve regulated lead-acid batteries	Proof against deep discharge	Maintenance-free (no topping up)	3000+ cycles* at 60 % DoD C_{10}

*With IUI charging, at 20 °C

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Technical data

Technical characteristics and data

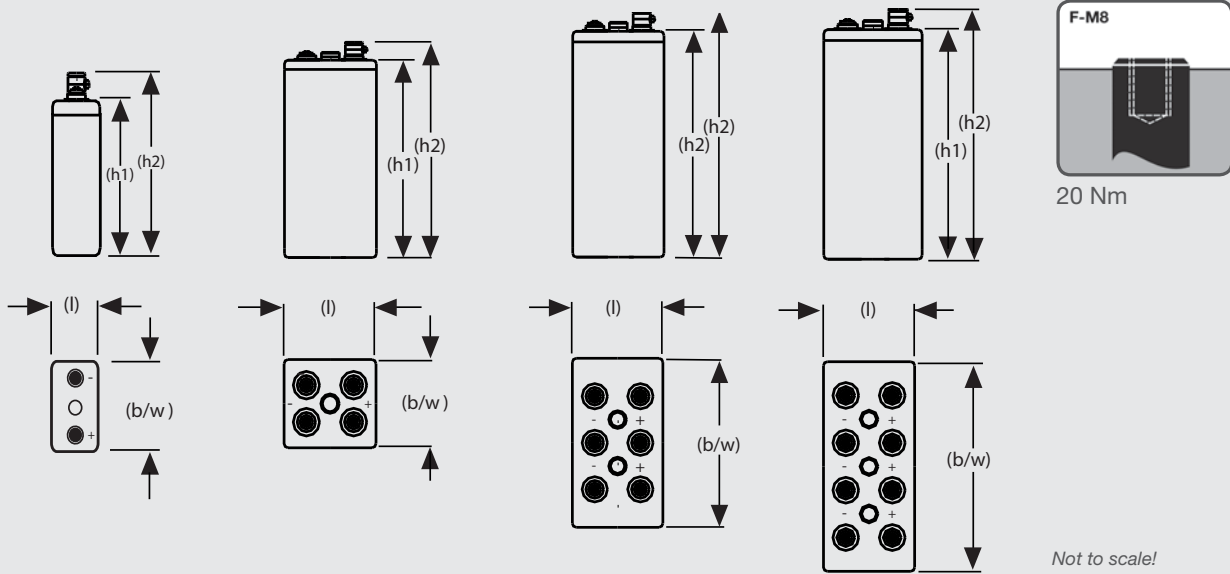
Type	Part number	Nom. voltage V	Nominal capacity C_{120} 1.85 Vpc 20 °C Ah	Discharge current I_{120} A	Length (l) max. mm	Width (b/w) max. mm	Height up to top of cover (h1) max. mm	Height incl. connectors (h2) max. mm	Weight approx. kg	Terminal	Pole pairs
A602/295 SOLAR	NGS6020295HSOFC	2	294	2.45	105	208	357	399	17.4	F-M8	1
A602/370 SOLAR	NGS6020370HSOFC	2	367	3.05	126	208	357	399	22.0	F-M8	1
A602/440 SOLAR	NGS6020440HSOFC	2	440	3.66	147	208	357	399	25.0	F-M8	1
A602/520 SOLAR	NGS6020520HSOFC	2	519	4.32	126	208	473	515	30.0	F-M8	1
A602/625 SOLAR	NGS6020625HSOFC	2	623	5.19	147	208	473	515	35.0	F-M8	1
A602/750 SOLAR	NGS6020750HSOFC	2	727	6.05	168	208	473	515	39.0	F-M8	1
A602/850 SOLAR	NGS6020850HSOFC	2	845	7.06	147	208	648	690	49.0	F-M8	1
A602/1130 SOLAR	NGS6021130HSOFC	2	1126	9.42	212	193	648	690	66.0	F-M8	2
A602/1415 SOLAR	NGS6021415HSOFC	2	1408	11.7	212	235	648	690	80.0	F-M8	2
A602/1695 SOLAR	NGS6021695HSOFC	2	1689	14.1	212	277	648	690	95.0	F-M8	2
A602/1960C SOLAR	NGS6021960HSOFC	2	1994	16.3	212	277	717	759	106	F-M8	2
A602/2600 SOLAR	NGS6022600HSOFC	2	2613	21.7	216	400	775	816	149	F-M8	3
A602/3270 SOLAR	NGS6023270HSOFC	2	3266	27.2	214	489	774	816	190	F-M8	4
A602/3920 SOLAR	NGS6023920HSOFC	2	3919	32.6	214	578	774	816	238	F-M8	4

Capacities $C_1 - C_{120}$ (20 °C) in Ah

Type	C_1 1.67 Vpc	C_3 1.75 Vpc	C_5 1.77 Vpc	C_{10} 1.80 Vpc	C_{24} 1.80 Vpc	C_{48} 1.80 Vpc	C_{72} 1.80 Vpc	C_{100} 1.85 Vpc	C_{120} 1.85 Vpc
A602/295 SOLAR	124	167	193	217	248	273	289	285	294
A602/370 SOLAR	155	209	241	272	310	342	362	357	367
A602/440 SOLAR	186	251	289	326	372	410	434	428	440
A602/520 SOLAR	229	307	342	379	435	471	503	505	519
A602/625 SOLAR	275	369	410	455	523	565	604	606	623
A602/750 SOLAR	321	431	479	531	610	659	705	707	727
A602/850 SOLAR	368	520	614	681	729	782	827	822	845
A602/1130 SOLAR	491	694	818	908	973	1043	1102	1096	1126
A602/1415 SOLAR	614	867	1023	1135	1216	1304	1378	1370	1408
A602/1695 SOLAR	737	1041	1228	1362	1459	1565	1654	1644	1689
A602/1960C SOLAR	867	1222	1371	1593	1803	1942	2016	1957	1994
A602/2600 SOLAR	1047	1548	1782	2024	2276	2472	2599	2547	2613
A602/3270 SOLAR	1309	1935	2227	2530	2846	3090	3249	3184	3266
A602/3920 SOLAR	1571	2322	2673	3036	3415	3708	3899	3821	3919

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Drawings with terminal position, terminal and torque





Exide Technologies, with operations in more than 80 countries, is one of the world's largest producers and recyclers of lead-acid batteries. Exide Technologies provides a comprehensive and customized range of stored electrical energy solutions. Based on over 120 years of experience in the development of innovative technologies, Exide Technologies is an esteemed partner of OEMs and serves the spare parts market for industrial and automotive applications.

GNB Industrial Power – A division of Exide Technologies – offers an extensive range of storage products and services, including solutions for telecommunication systems, railway applications, mining, renewable energy, uninterrupted power supply (UPS), electrical power generation and distribution, fork lifts and electric vehicles.

Exide Technologies takes pride in its commitment to a better environment. 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.



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GNB[®] INDUSTRIAL POWER devises enduring energy concepts that convince with efficiency, flexibility and profitability.