

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