

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)

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

Sonnenschein A600 SOLAR

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	NGS6020295HSOFA	2	294	2.45	105	208	357	399	19.0	F-M8	1
A602/370 SOLAR	NGS6020370HSOFA	2	367	3.05	126	208	357	399	23.0	F-M8	1
A602/440 SOLAR	NGS6020440HSOFA	2	440	3.66	147	208	357	399	27.0	F-M8	1
A602/520 SOLAR	NGS6020520HSOFA	2	519	4.32	126	208	473	515	30.0	F-M8	1
A602/625 SOLAR	NGS6020625HSOFA	2	623	5.19	147	208	473	515	35.0	F-M8	1
A602/750 SOLAR	NGS6020750HSOFA	2	727	6.05	168	208	473	515	39.0	F-M8	1
A602/850 SOLAR	NGS6020850HSOFA	2	848	7.06	147	208	648	690	49.0	F-M8	1
A602/1130 SOLAR	NGS6021130HSOFA	2	1131	9.42	212	193	648	690	66.0	F-M8	2
A602/1415 SOLAR	NGS6021415HSOFA	2	1413	11.7	212	235	648	690	80.0	F-M8	2
A602/1695 SOLAR	NGS6021695HSOFA	2	1695	14.1	212	277	648	690	95.0	F-M8	2
A602/1960C SOLAR	NGS6021960HSOFB	2	1959	16.3	212	277	717	759	115	F-M8	2
A602/2600 SOLAR	NGS6022600HSOFA	2	2613	21.7	216	400	775	816	160	F-M8	3
A602/3270 SOLAR	NGS6023270HSOFA	2	3266	27.2	214	489	774	816	198	F-M8	4
A602/3920 SOLAR	NGS6023920HSOFA	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_{100} 1.85 Vpc	C_{120} 1.85 Vpc
A602/295 SOLAR	123	167	193	218	286	294
A602/370 SOLAR	154	209	241	272	357	367
A602/440 SOLAR	185	251	290	326	429	440
A602/520 SOLAR	229	307	342	380	505	519
A602/625 SOLAR	275	369	410	456	606	623
A602/750 SOLAR	321	431	479	532	707	727
A602/850 SOLAR	367	513	626	681	829	848
A602/1130 SOLAR	489	684	834	908	1105	1131
A602/1415 SOLAR	612	855	1043	1135	1382	1413
A602/1695 SOLAR	734	1026	1252	1363	1658	1695
A602/1960C SOLAR	824	1209	1359	1573	1937	1959
A602/2600 SOLAR	1047	1548	1782	2025	2547	2613
A602/3270 SOLAR	1309	1935	2228	2532	3184	3266
A602/3920 SOLAR	1571	2322	2673	3038	3821	3919

Sonnenschein A600 SOLAR

Drawings with terminal position, terminal and torque

