

Sonnenschein A600 SOLAR cells / A602/440 Solar V0

INDUSTRIAL BATTERIES / NETWORK POWER

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 world wide.

Part Number: NGS6020440VS0FC

APPLICATIONS



SPECIFICATIONS

- Cycling performance at 20 °C (with IU charging): 2400 cycles at 60 % Depth of Discharge (C10) 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 17 months 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 (Underwriters Laboratories), DNV GL (Germanischer Lloyd)



Single cell



Tubular plate



Recyclable



Valve regulated
lead-acid
batteries



Proof
against deep
discharge



Maintenance
free (no
topping up)



3000+ cycles (with
IUI charging, at 20
°C) at
60 % DoD C₁₀

RECYCLE WITH EXIDE.



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.



For more information please
[contact your local dealer](#)

TECHNICAL CHARACTERISTICS AND DATA

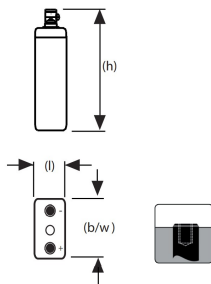
Nominal voltage	2 V
Float charge	2,3 V/C @ 20 °C
Capacity	CC 120h 1,85V/C 20°C 440Ah
Short circuit current	3350 A (IEC60896-21/22)
Internal resistance	0,61 mΩ (IEC60896-21/22)

Terminal	F M8
Terminal Torque	20 Nm
Container	UL 94-V0 (PP or ABS)
Temperature range	-40°C to 55°C
Dimensions (l x b/w x h)	147 x 208 x 399 mm
Weight	25 kg
Origin	Bad Lauterberg, Germany

CONSTANT CURRENT DISCHARGE

A @ 20 °C	3m	5m	10m	15m	30m	45m	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	13h	17h	20h	30h	40h	60h	80h	120h
1,900 V/C	168	168	168	157	142	122	111	76,9	60,3	51	43,9	38,4	34,3	31,1	28,5	26,3	21,2	17,2	15,1	10,7	8,48	6,05	4,72	3,32
1,870 V/C	210	210	210	199	169	138	123	85,1	67,5	55,9	48,1	42,3	37,6	34,1	31,1	28,8	23	18,6	16,3	11,5	9,05	6,44	5,02	3,52
1,850 V/C	225	225	225	215	186	149	133	89,8	71,9	59,7	51,6	45,1	40	36,2	33	30,5	24,4	19,5	17,2	12,1	9,51	6,74	5,24	3,67
1,830 V/C	261	261	261	245	200	160	141	94,7	75,5	63	54,2	47,2	41,8	37,8	34,4	31,6	25,2	20,2	17,8	12,5	9,8	6,94	5,39	3,78
1,800 V/C	287	287	287	263	218	174	155	102	78,9	65,6	56,4	48,9	43,3	39	35,6	32,6	26	20,8	18,2	12,8	10	7,09	5,52	3,86
1,770 V/C	330	330	330	297	234	185	167	107	82	67,8	58	50,2	44,4	40,1	36,4	33,5	26,6	21,2	18,6	13	10,2	7,21	5,6	3,93
1,750 V/C	347	347	347	310	245	192	173	110	83,8	69,3	59,2	51,1	45,1	40,6	37	33,9	27	21,5	18,8	13,1	10,3	7,3	5,67	3,98
1,730 V/C	358	358	358	325	255	199	178	113	84,9	70,1	60,1	51,7	45,6	41	37,3	34,2	27,2	21,7	19	13,2	10,4	7,37	5,71	4,02
1,700 V/C	381	381	381	348	268	206	182	114	85,5	70,8	60,8	52,1	46	41,3	37,4	34,4	27,3	21,8	19,1	13,4	10,5	7,42	5,75	4,04
1,670 V/C	399	399	399	363	277	213	186	116	86	71,2	61,2	52,5	46,3	41,4	37,6	34,5	27,5	21,9	19,2	13,4	10,5	7,45	5,76	4,05
1,650 V/C	409	409	409	375	283	215	186	116	86,4	71,5	61,4	52,8	46,5	41,5	37,7	34,6	27,6	22	19,3	13,5	10,5	7,47	5,77	4,06
1,630 V/C	419	419	419	386	287	217	186	117	86,7	71,8	61,6	52,9	46,6	41,6	37,7	34,7	27,6	22,1	19,3	13,5	10,6	7,49	5,78	4,07
1,600 V/C	419	419	419	386	287	217	186	117	86,7	71,8	61,6	52,9	46,6	41,6	37,7	34,7	27,6	22,1	19,3	13,5	10,6	7,49	5,79	4,07

Technical drawing



Cycle life vs. DOD

