



Industrial Batteries – Network Power
Sonnenschein A600
Premium quality for uninterrupted
communication.

Specifications

Highest capacity and reliability for limited space.

Specifications

- Extraordinary energy-saving features in addition with robust reliability
- Horizontal mounting possible
- Maintenance-free (no topping up) during the whole service life due to the Sonnenschein dryfit technology
- Nominal capacity 91 – 3286 Ah C₁₀
- Design life:
15 years for 6/12V blocks and
18 years for 2V cells at 20 °C
(80% remaining capacity from C₁₀)
- Container material:
blocks = ABS, UL 94-HB;
optional ABS, UL 94-V0
cells = ABS, UL 94-HB;
optional ABS, UL 94-V0
- Robust tubular plate technology
- Very low gassing due to internal gas recombination
- Long shelf life up to 2 years at 20 °C without recharge due to the very low self discharge rate
- Proof against deep discharge according to DIN 43 539 T5
- Cells in compliance with DIN 40 742
- Completely recyclable



Applications

In the first place, batteries of the Sonnenschein A600 series care for undisturbed connection in telecommunication fields such as telephone exchanges or mobile phone base stations. Further applications include emergency lighting, security, railways, utility and other power supplies for safety systems.



Design life in years
15 blocs,
18 cells



Nominal capacity
91 - 3286 Ah



Block battery
/ single cell

Tubular plate



Valve regulated
lead-acid



Recyclable



Proof against
deep discharge
acc. to
DIN 43 539T5



Maintenance-
free
(no topping-
up)

A600 blocks

Type acc. to DIN 40 742	Part number	Exide type designation	Nom. Voltage V	C ₁₀ 1.80 VpC 20°C Ah	Length l mm	Width b/w mm	Height h1 mm	Height h2 mm	Installed length B/L mm	Weight approx. kg	Internal resistance acc. IEC896-2 mOhm	Short circuit current acc. IEC896-2 A	Terminal	Pole pairs
12V 2 OPzV 100	NGA6120100HS0FA	A612/100	12	91.0	273	204	319	350	281	43.0	8.27	1400	F-M8	1
12V 3 OPzV 150	NGA6120150HS0FA	A612/150	12	137	381	204	319	350	389	63.0	5.88	2000	F-M8	1
6V 4 OPzV 200	NGA6060200HS0FA	A606/200	6	182	273	204	319	350	281	43.0	2.31	2550	F-M8	1
6V 6 OPzV 300	NGA6060300HS0FA	A606/300	6	274	381	204	319	350	389	62.0	1.80	3300	F-M8	1

Container, approval, terminal and torque

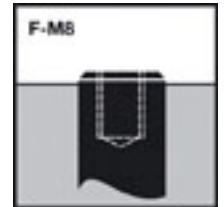
Data are also valid for UL 94-V0 version.

Change "H to "V" in the part number.

E.g.:

Standard NGA6120100 H S0FA

UL 94-V0 NGA6120100 V S0FA



12 Nm

Container: Standard = ABS
 UL 94-V0 = ABS

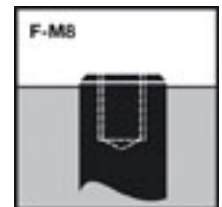
Approval: DIN/Gost/TÜV, Russland

A600 cells

Type acc. to DIN 40 742	Part number	Exide type designation	Nom. Voltage V	C ₁₀ 1.80 VpC 20°C Ah	Length l mm	Width b/w mm	Height h1 mm	Height h2 mm	Installed length B/L mm	Weight approx. kg	Internal resistance acc. IEC896-2 mOhm	Short circuit current acc. IEC896-2 A	Terminal	Pole pairs
4 OPzV 200	NGA6020200HS0FC	A602/200	2	224	104	207	357	401	113	18.0	0.95	2200	F-M8	1
5 OPzV 250	NGA6020250HS0FC	A602/250	2	280	125	207	357	401	134	22.0	0.79	2700	F-M8	1
6 OPzV 300	NGA6020300HS0FC	A602/300	2	337	146	207	357	401	155	25.0	0.61	3340	F-M8	1
5 OPzV 350	NGA6020350HS0FC	A602/350	2	416	125	207	473	517	134	32.0	0.62	3310	F-M8	1
6 OPzV 420	NGA6020420HS0FC	A602/420	2	499	146	207	473	517	155	37.0	0.53	3930	F-M8	1
7 OPzV 490	NGA6020490HS0FC	A602/490	2	582	167	207	473	517	176	42.0	0.47	4370	F-M8	1
6 OPzV 600	NGA6020600HS0FC	A602/600	2	748	146	207	648	693	155	50.0	0.48	4290	F-M8	1
8 OPzV 800	NGA6020800HS0FC	A602/800	2	998	211	192	648	693	210	68.0	0.38	4830	F-M8	2
10 OPzV 1000	NGA6021000HS0FC	A602/1000	2	1248	211	234	648	693	220	82.0	0.33	6260	F-M8	2
12 OPzV 1200	NGA6021200HS0FC	A602/1200	2	1497	211	276	648	693	220	98.0	0.28	7840	F-M8	2
12 OPzV 1500	NGA6021500HS0FC	A602/1500	2	1643	211	276	798	843	220	112	0.19	10500	F-M8	2
16 OPzV 2000	NGA6022000HS0FC	A602/2000	2	2190	214	399	775	819	223	153	0.15	14000	F-M8	3
20 OPzV 2500	NGA6022500HS0FC	A602/2500	2	2738	214	488	774	819	222	196	0.12	17500	F-M8	4
24 OPzV 3000	NGA6023000HS0FC	A602/3000	2	3286	213	577	774	819	222	225	0.10	21000	F-M8	4

Container, approval, terminal and torque

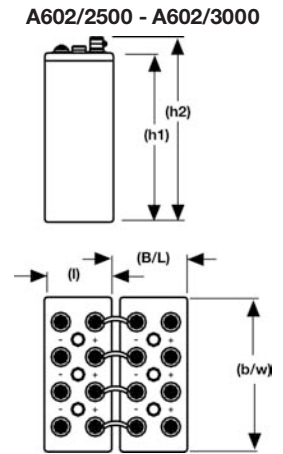
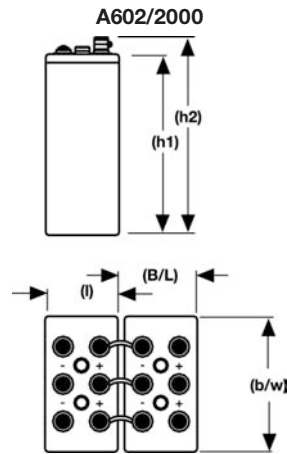
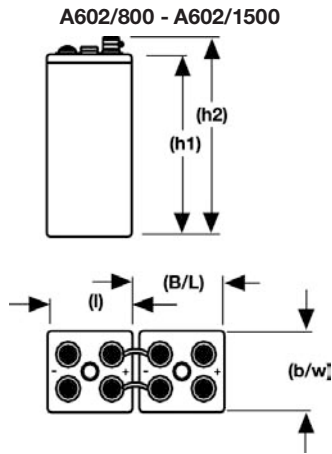
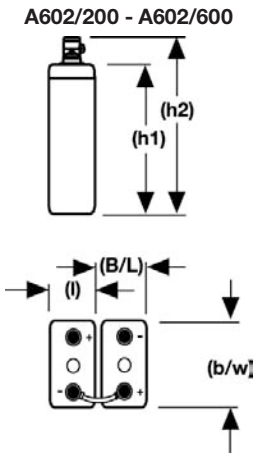
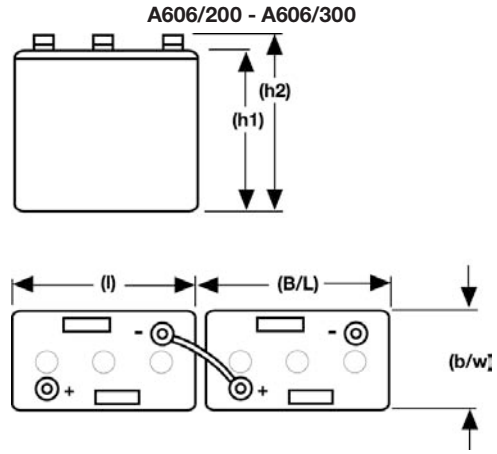
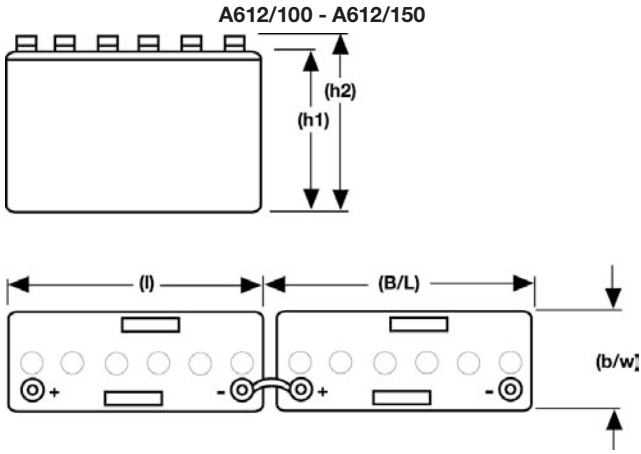
Data are also valid for UL 94-V0 version.
 Change "H" to "V" in the part number.
 E.g.:
 Standard NGA6020200 H S0FC
 UL 94-V0 NGA6020200 V S0FC

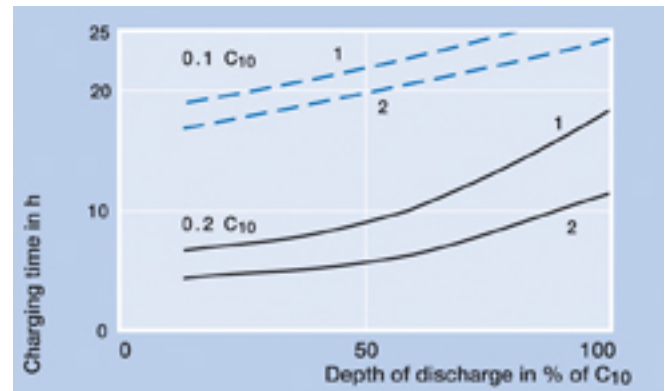
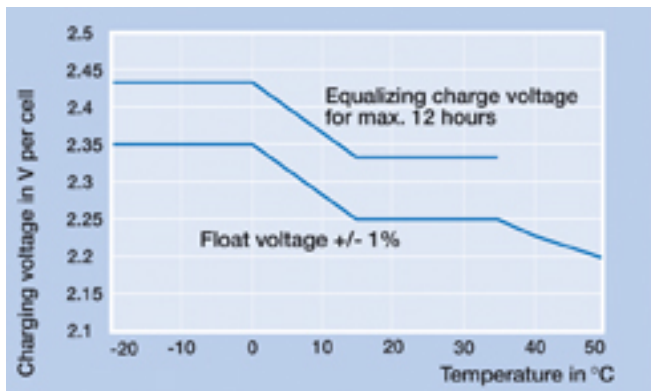


20 Nm

Container Standard = ABS
 UL 94-V0 = ABS

Approval: Underwriters Laboratories (UL), USA
 Germanischer Lloyd (GL)
 DIN/Gost/TÜV, Russland
 By many Telecom organisations worldwide



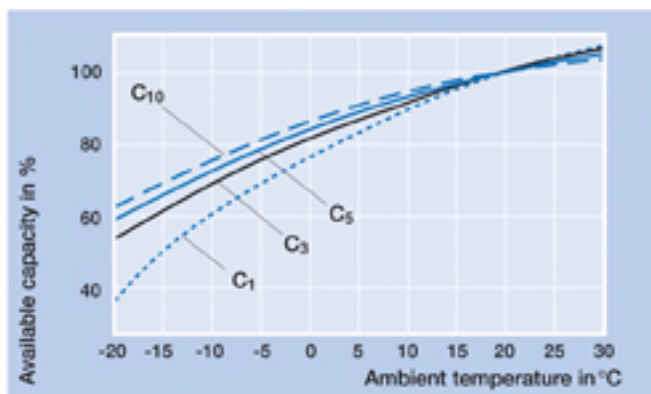


For continuous charging we recommend a voltage of 2.25 V. The charging voltage must be compensated to the curve for a continuously different battery ambient temperature.

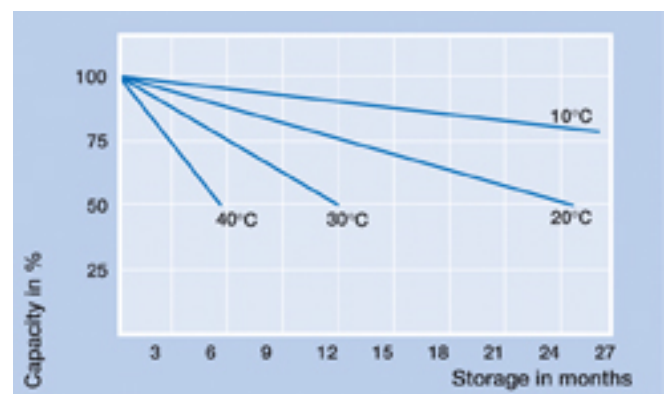
Charge voltage:
 1: 2.25 V/C
 2: 2.40 V/C

- - - - State of charge 100 %
 - - - - State of charge 90 %

Recharging time in relation to the initial charging current at 20 °C.



Available capacity in relation to the ambient temperature.



Self-discharge in relation to the storage temperature.