

Sonnenschein A600 cells / A602/3300 V0

INDUSTRIAL BATTERIES / NETWORK POWER

Sonnenschein A600 has extraordinary energy-saving features in addition with robust reliability, proven for decades in many installations worldwide.

Part Number: NGA6023300VS0FA

APPLICATIONS



SPECIFICATIONS

- Very low gassing due to internal gas recombination
- 20 years design life at 20°C ambient temperature (80% remaining capacity from C₁₀)
- Long shelf life up to 2 years at 20 °C without recharge due to the very low self discharge rate
- Available as standard or flame retardant version (UL 94-V0)
- Cells in compliance with DIN 40 742
- Designed in accordance with IEC 60896-21/-22
- Manufactured in Europe in our ISO 9001 certified production plants



Design life
20 years



Single cell



Tubular plate



Recyclable



Valve
regulated
lead-acid
batteries



Proof
against deep
discharge



Maintenance
free (no
topping up)



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 | 2,27 V/C @ 20 °C |
| Capacity | CP 10min 1,6V/C 20°C 4200W/Bloc CC 10h 1,8V/C 20°C 3286Ah |
| Short circuit current | 16100 A (IEC60896-21/22) |
| Internal resistance | 0,1 mΩ (IEC60896-21/22) |

| | |
|---------------------------------|-------------------------|
| Terminal | 4 x F M8 |
| Terminal Torque | 20 Nm |
| Container | UL 94-V0 (ABS) |
| Temperature range | -40°C to 55°C |
| Dimensions (l x b/w x h) | 214 x 578 x 816 mm |
| Weight | 238 kg |
| Origin | Bad Lauterberg, Germany |

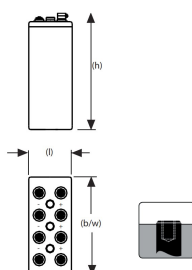
CONSTANT POWER DISCHARGE

| W @ 20 °C | 3m | 5m | 10m | 15m | 20m | 30m | 45m | 1h | 90m | 2h | 3h | 4h | 5h | 6h | 7h | 8h | 9h | 10h | 15h | 20h | 40h | 60h | 80h | 120h |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| 1,900 V/C | 2116 | 2098 | 2060 | 2016 | 1984 | 1930 | 1800 | 1728 | 1534 | 1362 | 1098 | 894 | 766 | 679 | 609 | 555 | 515 | 483 | 381 | 321 | 175 | 121 | 92,8 | 64,5 |
| 1,870 V/C | 2284 | 2260 | 2200 | 2134 | 2094 | 2036 | 1960 | 1876 | 1700 | 1538 | 1264 | 1046 | 884 | 766 | 678 | 614 | 568 | 523 | 403 | 342 | 185 | 127 | 96,8 | 66,6 |
| 1,850 V/C | 2510 | 2480 | 2380 | 2280 | 2200 | 2104 | 2066 | 1952 | 1796 | 1652 | 1374 | 1136 | 958 | 837 | 737 | 662 | 602 | 558 | 421 | 352 | 190 | 130 | 99,7 | 68,5 |
| 1,830 V/C | 2846 | 2800 | 2760 | 2576 | 2510 | 2276 | 2174 | 2064 | 1890 | 1724 | 1448 | 1210 | 1022 | 882 | 775 | 696 | 635 | 585 | 437 | 363 | 196 | 134 | 103 | 70,6 |
| 1,800 V/C | 3256 | 3200 | 3108 | 2942 | 2854 | 2648 | 2514 | 2312 | 2018 | 1814 | 1536 | 1300 | 1092 | 942 | 827 | 739 | 673 | 617 | 456 | 374 | 202 | 139 | 106 | 72,8 |
| 1,750 V/C | 3718 | 3688 | 3602 | 3336 | 3180 | 2978 | 2826 | 2526 | 2166 | 1902 | 1632 | 1378 | 1164 | 994 | 866 | 771 | 700 | 640 | 466 | 378 | 204 | 140 | 107 | 73,6 |
| 1,700 V/C | 3940 | 3940 | 3858 | 3722 | 3600 | 3332 | 3066 | 2702 | 2272 | 1950 | 1668 | 1414 | 1200 | 1022 | 892 | 793 | 717 | 655 | 474 | 383 | 207 | 142 | 108 | 74,6 |
| 1,650 V/C | 4308 | 4216 | 4060 | 3944 | 3820 | 3612 | 3260 | 2872 | 2400 | 2060 | 1706 | 1426 | 1218 | 1034 | 901 | 802 | 726 | 665 | 479 | 387 | 209 | 143 | 109 | 75,3 |
| 1,600 V/C | 4888 | 4680 | 4200 | 4100 | 4000 | 3814 | 3400 | 3008 | 2468 | 2080 | 1712 | 1442 | 1228 | 1042 | 909 | 808 | 732 | 670 | 483 | 389 | 210 | 144 | 110 | 75,7 |

CONSTANT CURRENT DISCHARGE

| A @ 20 °C | 3m | 5m | 10m | 15m | 30m | 45m | 1h | 90m | 2h | 3h | 4h | 5h | 6h | 7h | 8h | 9h | 10h | 13h | 17h | 20h | 40h | 60h | 80h | 120h |
|-----------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| 1,900 V/C | 1036 | 1036 | 1036 | 1004 | 958 | 920 | 872 | 784 | 704 | 572 | 489 | 427 | 376 | 338 | 310 | 283 | 259 | 208 | 167 | 147 | 80,2 | 55,6 | 43,1 | 30,2 |
| 1,870 V/C | 1248 | 1248 | 1248 | 1226 | 1190 | 1065 | 948 | 862 | 780 | 656 | 548 | 469 | 410 | 367 | 334 | 303 | 277 | 224 | 182 | 159 | 87,9 | 60,8 | 46,6 | 32,4 |
| 1,850 V/C | 1546 | 1546 | 1546 | 1458 | 1296 | 1140 | 1020 | 920 | 832 | 694 | 580 | 503 | 442 | 397 | 362 | 328 | 299 | 240 | 191 | 167 | 90,7 | 62,8 | 48,2 | 33,3 |
| 1,830 V/C | 1684 | 1684 | 1684 | 1616 | 1416 | 1225 | 1100 | 984 | 884 | 746 | 622 | 537 | 471 | 420 | 381 | 345 | 314 | 251 | 199 | 173 | 93,3 | 64,7 | 49,6 | 34,3 |
| 1,800 V/C | 1918 | 1918 | 1918 | 1796 | 1614 | 1437 | 1294 | 1112 | 986 | 796 | 660 | 567 | 496 | 442 | 399 | 361 | 329 | 259 | 205 | 179 | 96,2 | 66,4 | 50,9 | 35,1 |
| 1,750 V/C | 2034 | 2034 | 2034 | 1970 | 1856 | 1657 | 1518 | 1264 | 1068 | 850 | 697 | 596 | 520 | 463 | 418 | 377 | 344 | 273 | 214 | 185 | 98,6 | 67,7 | 52 | 35,9 |
| 1,700 V/C | 2336 | 2336 | 2336 | 2220 | 2048 | 1881 | 1710 | 1358 | 1130 | 870 | 713 | 608 | 530 | 474 | 427 | 385 | 351 | 278 | 218 | 189 | 100 | 68,4 | 52,5 | 36,2 |
| 1,650 V/C | 2640 | 2640 | 2640 | 2412 | 2214 | 2038 | 1812 | 1416 | 1166 | 894 | 726 | 619 | 539 | 481 | 433 | 391 | 356 | 281 | 221 | 190 | 100 | 68,7 | 52,8 | 36,4 |
| 1,600 V/C | 3088 | 3088 | 3088 | 2808 | 2496 | 2208 | 1900 | 1468 | 1210 | 910 | 738 | 626 | 545 | 486 | 438 | 395 | 360 | 284 | 223 | 192 | 100 | 68,7 | 52,9 | 36,4 |

Technical drawing



Cycle life vs. DOD

