

Industrial Batteries / Network Power

Sonnenschein A600



»Premium quality for
 uninterrupted communication«



Industrial Batteries

The powerful range of Network Power

Energy storage solutions for critical systems that require uninterrupted power supply. GNB® Industrial Power offers powerful batteries for your individual needs. The below table is only indicative and depends on customers' specific applications. For more information please ask a GNB sales representative.

| Applica-tions | Battery ranges | | | | | | | | | | | | | | | | | |
|--------------------|----------------|---------|------|------|-------|------|----------|--------|----------|------|----------|-----------|---------|------|------|-----------------|-------|------|
| | Sonnenschein | | | | | | Marathon | | Sprinter | | Absolyte | Powerfit | Classic | | | | | |
| | A400/A600 | A400 FT | A500 | A700 | Solar | RAIL | M FT | M/L/XL | S | P/XP | GP/GX | S200/S300 | GRoE | OCSM | OPzS | Energy Bloc/OGi | Solar | rail |
| Telecom | ● | ● | ● | ● | | | ● | ● | ● | ● | ● | | | ● | ● | ● | | |
| UPS | | ● | ● | ● | | | ● | ● | ● | ● | ● | | | ● | | ● | | |
| Emergency lighting | ● | | ● | | | | | ● | | ● | | ● | | | ● | ● | | |
| Security | ● | | ● | ● | | | | | | ● | | ● | | ● | ● | | | |
| Utility | ● | ● | | ● | | | ● | ● | ● | | ● | | ● | ● | ● | ● | | |
| Railways | ● | ● | ● | ● | | ● | ● | ● | ● | ● | | | | ● | | ● | | ● |
| Photovoltaic | | | | | ● | | | | | ● | | | | | | | ● | |
| Universal | ● | ● | ● | ● | | | ● | ● | ● | ● | ● | | | ● | ● | ● | | |

The GNB Network Power brand overview

ABSOLYTE™ **MARATHON™** > VRLA batteries (Valve Regulated Lead Acid) in which the electrolyte is fixed in an absorbent glass mat (AGM)
Sprinter® **Powerfit™** > Excellent high current capability
 > Very economical
 > Maintenance-free (no topping up)

> VRLA batteries (Valve Regulated Lead Acid) in which the electrolyte is fixed in a gel (dryfit technology)
 > Inventor of Gel technology
 > Highest reliability, even in non-optimal conditions
 > Particularly suitable for cyclic applications
 > Maintenance-free (no topping up)

Classic™ > Conventional lead-acid batteries with liquid electrolyte
 > Extreme reliability, proven over decades
 > Low maintenance



Further information about service is available on page 14

Sonnenschein A600

More than just OPzV

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

Your benefits:

- > **dryfit Gel** – VRLA technology
- > **Lowest energy consumption** – saving costs
- > **Robust design** – resilient in harsh conditions
- > **Proof against deep discharge** – greater long-term energy delivery
- > **Strong tubular plate design** – extremely long design life
- > **Horizontal mounting possible** – easy installation and maintenance
- > **Completely recyclable** – low CO₂ footprint



Specifications:

- > Very low gassing due to internal gas recombination
- > Nominal capacity 91 – 3286 Ah C₁₀
- > Design life: 15 years for 6/12 V blocks and 20 years for 2 V cells at 20 °C (80 % remaining capacity from C₁₀)
- > Available as standard or flame retardant version (UL 94-V0)
- > Long shelf life up to 2 years at 20 °C without recharge due to the very low self discharge rate
- > 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 in years:
15 for blocks
20 for cells



Nominal capacity
91.0 – 3286 Ah



Block battery /
single cell



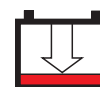
Tubular plate



Recyclable



Valve regulated
lead-acid
batteries



Proof
against deep
discharge



Maintenance-
free (no
topping up)

Sonnenschein A600

Technical data

Technical characteristics and data

| Type | Part number | Type acc. to ¹ DIN 40 742 ² DIN 40 744 | Nom. voltage V | Nominal capacity C ₁₀ 1.80 V _{pc} 20 °C Ah | Length (l) max. mm | Width (b/w) max. mm | Height (h1) max. mm | Height* (h2) max. mm | Weight approx. kg | Internal resistance mOhm | Short circuit current A | Terminal | Pole pairs |
|------------|-----------------|--|-------------------|---|-----------------------|------------------------|------------------------|-------------------------|----------------------|-----------------------------|----------------------------|----------|------------|
| A602/225 | NGA6020225HS0FC | 4 OPzV 200 ¹ | 2 | 224 | 105 | 208 | 357 | 399 | 19.0 | 0.95 | 2200 | F-M8 | 1 |
| A602/280 | NGA6020280HS0FC | 5 OPzV 250 ¹ | 2 | 280 | 126 | 208 | 357 | 399 | 23.0 | 0.79 | 2700 | F-M8 | 1 |
| A602/335 | NGA6020335HS0FC | 6 OPzV 300 ¹ | 2 | 337 | 147 | 208 | 357 | 399 | 27.0 | 0.61 | 3350 | F-M8 | 1 |
| A602/415 | NGA6020415HS0FC | 5 OPzV 350 ¹ | 2 | 416 | 126 | 208 | 473 | 515 | 30.0 | 0.62 | 3300 | F-M8 | 1 |
| A602/500 | NGA6020500HS0FC | 6 OPzV 420 ¹ | 2 | 499 | 147 | 208 | 473 | 515 | 35.0 | 0.53 | 3950 | F-M8 | 1 |
| A602/580 | NGA6020580HS0FC | 7 OPzV 490 ¹ | 2 | 582 | 168 | 208 | 473 | 515 | 39.0 | 0.47 | 4400 | F-M8 | 1 |
| A602/750 | NGA6020750HS0FC | 6 OPzV 600 ¹ | 2 | 748 | 147 | 208 | 648 | 690 | 49.0 | 0.48 | 4300 | F-M8 | 1 |
| A602/1010 | NGA6021010HS0FC | 8 OPzV 800 ¹ | 2 | 998 | 212 | 193 | 648 | 690 | 66.0 | 0.38 | 4850 | F-M8 | 2 |
| A602/1250 | NGA6021250HS0FC | 10 OPzV 1000 ¹ | 2 | 1248 | 212 | 235 | 648 | 690 | 80.0 | 0.33 | 6250 | F-M8 | 2 |
| A602/1510 | NGA6021510HS0FC | 12 OPzV 1200 ¹ | 2 | 1497 | 212 | 277 | 648 | 690 | 95.0 | 0.29 | 7850 | F-M8 | 2 |
| A602/1650C | NGA6021650HS0FE | 12 OPzV 1500 ¹ | 2 | 1643 | 212 | 277 | 717 | 759 | 115 | 0.23 | 9000 | F-M8 | 2 |
| A602/2200 | NGA6022200HS0FC | 16 OPzV 2000 ¹ | 2 | 2190 | 216 | 400 | 775 | 816 | 160 | 0.19 | 10750 | F-M8 | 3 |
| A602/2740 | NGA6022740HS0FC | 20 OPzV 2500 ¹ | 2 | 2738 | 214 | 489 | 774 | 816 | 198 | 0.16 | 13400 | F-M8 | 4 |
| A602/3300 | NGA6023300HS0FC | 24 OPzV 3000 ¹ | 2 | 3286 | 214 | 578 | 774 | 816 | 238 | 0.10 | 16100 | F-M8 | 4 |
| A606/200 | NGA6060200HS0FB | 6V 4 OPzV 200 ² | 6 | 182 | 272 | 206 | 323 | 347 | 43.0 | 2.31 | 2550 | F-M8 | 1 |
| A606/300 | NGA6060300HS0FB | 6V 6 OPzV 300 ² | 6 | 274 | 380 | 206 | 323 | 347 | 62.0 | 1.80 | 3300 | F-M8 | 1 |
| A612/100 | NGA6120100HS0FB | 12V 2 OPzV 100 ² | 12 | 91.0 | 272 | 206 | 323 | 347 | 43.0 | 8.28 | 1400 | F-M8 | 1 |
| A612/150 | NGA6120150HS0FB | 12V 3 OPzV 150 ² | 12 | 137 | 380 | 206 | 323 | 347 | 63.0 | 5.88 | 2000 | F-M8 | 1 |

*includes installed connector

Approval, container, terminal and torque

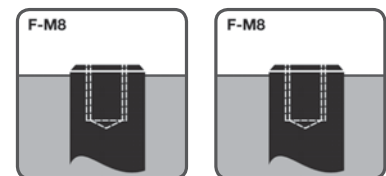
> Approval:

Blocks:

- DIN/Gost/TÜV, Russia

Cells:

- Underwriters Laboratories (UL), USA
- Germanischer Lloyd (GL)
- DIN/Gost/TÜV, Russia
- By many Telecom organisations worldwide



blocks – 12 Nm

cells – 20 Nm

Data are also valid for UL 94-V0 version.

Change »H« to »V« in the part number. E.g.:

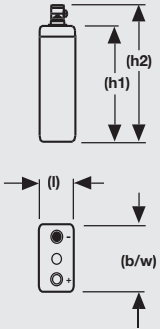
> **Standard:** NGA6120100 H S0FB

> **UL 94-V0:** NGA6120100 V S0FB

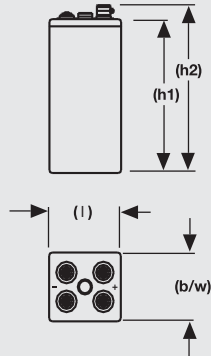
Sonnenschein A600

Drawings

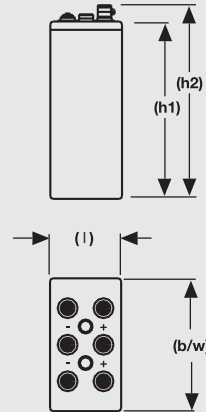
**A602/225 -
A602/750**



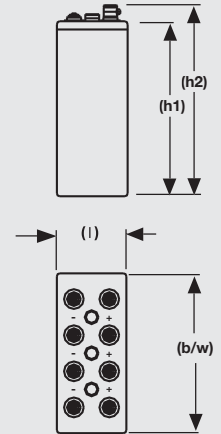
**A602/1010 -
A602/1650C**



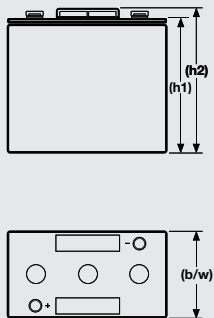
A602/2200



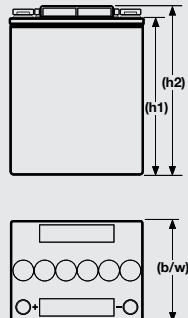
**A602/2740 -
A602/3300**



**A606/200 -
A606/300**



**A612/100 -
A612/150**



Sonnenschein A600

Constant current discharge · A600 blocks

1.87 Vpc – Discharge in A at 20 °C

| Type | Part number | 5 min | 10 min | 15 min | 30 min | 1 h | 2 h | 3 h | 4 h | 5 h | 8 h | 10 h |
|----------|-----------------|-------|--------|--------|--------|------|------|------|------|------|------|------|
| A606/200 | NGA6060200HS0FB | 177 | 162 | 137 | 116 | 81.7 | 55.9 | 42.6 | 34.5 | 29.3 | 20.1 | 16.7 |
| A606/300 | NGA6060300HS0FB | 266 | 238 | 214 | 163 | 120 | 83.2 | 63.8 | 51.7 | 43.9 | 30.2 | 25.1 |
| A612/100 | NGA6120100HS0FB | 96.9 | 86.7 | 75.8 | 64.6 | 42.8 | 28.5 | 21.3 | 17.2 | 14.6 | 10.1 | 8.40 |
| A612/150 | NGA6120150HS0FB | 139 | 126 | 108 | 91.8 | 62.7 | 42.5 | 31.9 | 25.8 | 21.9 | 15.1 | 12.5 |

1.83 Vpc – Discharge in A at 20 °C

| Type | Part number | 5 min | 10 min | 15 min | 30 min | 1 h | 2 h | 3 h | 4 h | 5 h | 8 h | 10 h |
|----------|-----------------|-------|--------|--------|--------|------|------|------|------|------|------|------|
| A606/200 | NGA6060200HS0FB | 205 | 181 | 162 | 131 | 91.2 | 60.0 | 45.2 | 36.4 | 30.8 | 21.3 | 17.5 |
| A606/300 | NGA6060300HS0FB | 281 | 249 | 221 | 190 | 134 | 88.9 | 67.8 | 54.6 | 46.2 | 31.3 | 26.2 |
| A612/100 | NGA6120100HS0FB | 112 | 96.9 | 88.5 | 71.2 | 47.5 | 30.4 | 22.6 | 18.2 | 15.4 | 10.6 | 8.70 |
| A612/150 | NGA6120150HS0FB | 162 | 141 | 126 | 103 | 69.8 | 45.3 | 33.9 | 27.3 | 23.1 | 16.0 | 13.1 |

1.80 Vpc – Discharge in A at 20 °C

| Type | Part number | 5 min | 10 min | 15 min | 30 min | 1 h | 2 h | 3 h | 4 h | 5 h | 8 h | 10 h |
|----------|-----------------|-------|--------|--------|--------|------|------|------|------|------|------|------|
| A606/200 | NGA6060200HS0FB | 231 | 201 | 181 | 148 | 101 | 63.9 | 47.9 | 38.1 | 31.9 | 22.0 | 18.2 |
| A606/300 | NGA6060300HS0FB | 314 | 281 | 249 | 215 | 148 | 94.0 | 71.8 | 57.2 | 47.9 | 33.1 | 27.4 |
| A612/100 | NGA6120100HS0FB | 126 | 109 | 96.9 | 75.8 | 52.3 | 31.9 | 23.9 | 19.0 | 16.0 | 11.0 | 9.10 |
| A612/150 | NGA6120150HS0FB | 181 | 157 | 141 | 110 | 76.9 | 47.6 | 35.9 | 28.5 | 23.9 | 16.5 | 13.7 |

1.75 Vpc – Discharge in A at 20 °C

| Type | Part number | 5 min | 10 min | 15 min | 30 min | 1 h | 2 h | 3 h | 4 h | 5 h | 8 h | 10 h |
|----------|-----------------|-------|--------|--------|--------|------|------|------|------|------|------|------|
| A606/200 | NGA6060200HS0FB | 253 | 227 | 187 | 155 | 108 | 66.5 | 49.8 | 39.6 | 33.1 | 22.4 | 18.6 |
| A606/300 | NGA6060300HS0FB | 346 | 319 | 259 | 226 | 160 | 98.1 | 74.7 | 59.3 | 49.6 | 33.6 | 27.9 |
| A612/100 | NGA6120100HS0FB | 139 | 124 | 105 | 83.1 | 56.1 | 33.7 | 24.9 | 19.7 | 16.5 | 11.2 | 9.30 |
| A612/150 | NGA6120150HS0FB | 200 | 179 | 148 | 120 | 82.7 | 50.2 | 37.3 | 29.6 | 24.8 | 16.8 | 14.0 |

1.70 Vpc – Discharge in A at 20 °C

| Type | Part number | 5 min | 10 min | 15 min | 30 min | 1 h | 2 h | 3 h | 4 h | 5 h | 8 h | 10 h |
|----------|-----------------|-------|--------|--------|--------|------|------|------|------|------|------|------|
| A606/200 | NGA6060200HS0FB | 277 | 253 | 223 | 173 | 114 | 70.3 | 50.9 | 40.4 | 33.8 | 22.8 | 18.6 |
| A606/300 | NGA6060300HS0FB | 395 | 357 | 314 | 253 | 168 | 105 | 76.4 | 60.4 | 50.4 | 34.2 | 27.9 |
| A612/100 | NGA6120100HS0FB | 151 | 137 | 123 | 91.8 | 58.9 | 36.1 | 25.5 | 20.2 | 16.9 | 11.4 | 9.30 |
| A612/150 | NGA6120150HS0FB | 219 | 198 | 176 | 133 | 86.9 | 53.6 | 38.2 | 30.4 | 25.4 | 17.1 | 14.0 |

1.65 Vpc – Discharge in A at 20 °C

| Type | Part number | 5 min | 10 min | 15 min | 30 min | 1 h | 2 h | 3 h | 4 h | 5 h | 8 h | 10 h |
|----------|-----------------|-------|--------|--------|--------|------|------|------|------|------|------|------|
| A606/200 | NGA6060200HS0FB | 313 | 273 | 240 | 179 | 114 | 70.3 | 50.9 | 40.4 | 33.8 | 22.8 | 18.6 |
| A606/300 | NGA6060300HS0FB | 440 | 389 | 340 | 262 | 168 | 105 | 76.4 | 60.4 | 50.4 | 34.2 | 27.9 |
| A612/100 | NGA6120100HS0FB | 167 | 149 | 131 | 95.0 | 58.9 | 36.1 | 25.5 | 20.2 | 16.9 | 11.4 | 9.30 |
| A612/150 | NGA6120150HS0FB | 243 | 216 | 190 | 137 | 86.9 | 53.6 | 38.2 | 30.4 | 25.4 | 17.1 | 14.0 |

Sonnenschein A600

Constant current discharge · A600 cells

1.90 Vpc – Discharge in A at 20 °C

| Type | Part number | 10 min | 15 min | 30 min | 1 h | 2 h | 3 h | 5 h | 8 h | 10 h |
|------------|-----------------|--------|--------|--------|------|------|------|------|------|------|
| A602/225 | NGA6020225HS0FC | 144 | 126 | 107 | 76.2 | 59.6 | 45.7 | 31.2 | 21.4 | 18.3 |
| A602/280 | NGA6020280HS0FC | 180 | 158 | 134 | 95.3 | 74.5 | 57.1 | 39.0 | 26.8 | 22.9 |
| A602/335 | NGA6020335HS0FC | 216 | 189 | 161 | 114 | 89.4 | 68.6 | 46.8 | 32.1 | 22.5 |
| A602/415 | NGA6020415HS0FC | 244 | 231 | 187 | 143 | 112 | 90.0 | 65.3 | 44.8 | 36.7 |
| A602/500 | NGA6020500HS0FC | 293 | 277 | 224 | 172 | 134 | 108 | 78.4 | 53.8 | 44.0 |
| A602/580 | NGA6020580HS0FC | 342 | 323 | 262 | 200 | 157 | 126 | 91.4 | 62.7 | 51.4 |
| A602/750 | NGA6020750HS0FC | 270 | 258 | 243 | 214 | 167 | 138 | 102 | 71.9 | 60.3 |
| A602/1010 | NGA6021010HS0FC | 360 | 344 | 324 | 285 | 223 | 184 | 136 | 95.9 | 80.4 |
| A602/1250 | NGA6021250HS0FC | 450 | 430 | 405 | 357 | 278 | 230 | 171 | 120 | 101 |
| A602/1510 | NGA6021510HS0FC | 517 | 516 | 486 | 428 | 334 | 276 | 205 | 144 | 121 |
| A602/1650C | NGA6021650HS0FE | 518 | 518 | 507 | 420 | 312 | 261 | 205 | 155 | 129 |
| A602/2200 | NGA6022200HS0FC | 691 | 669 | 639 | 581 | 469 | 381 | 284 | 207 | 172 |
| A602/2740 | NGA6022740HS0FC | 863 | 837 | 798 | 727 | 587 | 477 | 355 | 259 | 216 |
| A602/3300 | NGA6023300HS0FC | 1036 | 1004 | 958 | 872 | 704 | 572 | 427 | 310 | 259 |

1.87 Vpc – Discharge in A at 20 °C

| Type | Part number | 10 min | 15 min | 30 min | 1 h | 2 h | 3 h | 5 h | 8 h | 10 h |
|------------|-----------------|--------|--------|--------|------|------|------|------|------|------|
| A602/225 | NGA6020225HS0FC | 173 | 156 | 124 | 83.9 | 64.7 | 49.5 | 34.7 | 24.2 | 20.5 |
| A602/280 | NGA6020280HS0FC | 216 | 195 | 155 | 105 | 80.9 | 61.9 | 43.4 | 30.3 | 25.6 |
| A602/335 | NGA6020335HS0FC | 260 | 234 | 186 | 126 | 97.1 | 74.3 | 52.1 | 36.3 | 30.8 |
| A602/415 | NGA6020415HS0FC | 308 | 284 | 223 | 163 | 119 | 96.6 | 69.4 | 47.8 | 39.6 |
| A602/500 | NGA6020500HS0FC | 370 | 341 | 268 | 196 | 143 | 116 | 83.3 | 57.4 | 47.5 |
| A602/580 | NGA6020580HS0FC | 431 | 398 | 313 | 228 | 167 | 135 | 97.2 | 66.9 | 55.4 |
| A602/750 | NGA6020750HS0FC | 340 | 327 | 305 | 248 | 190 | 154 | 113 | 78.0 | 64.5 |
| A602/1010 | NGA6021010HS0FC | 453 | 436 | 407 | 331 | 253 | 205 | 150 | 104 | 86.0 |
| A602/1250 | NGA6021250HS0FC | 567 | 545 | 508 | 413 | 317 | 257 | 188 | 130 | 108 |
| A602/1510 | NGA6021510HS0FC | 623 | 623 | 610 | 496 | 380 | 308 | 226 | 156 | 129 |
| A602/1650C | NGA6021650HS0FE | 624 | 624 | 615 | 548 | 380 | 319 | 227 | 167 | 139 |
| A602/2200 | NGA6022200HS0FC | 832 | 817 | 793 | 632 | 520 | 437 | 313 | 223 | 185 |
| A602/2740 | NGA6022740HS0FC | 1040 | 1022 | 992 | 790 | 650 | 547 | 391 | 278 | 231 |
| A602/3300 | NGA6023300HS0FC | 1248 | 1226 | 1190 | 948 | 780 | 656 | 469 | 334 | 277 |

1.85 Vpc – Discharge in A at 20 °C

| Type | Part number | 10 min | 15 min | 30 min | 1 h | 2 h | 3 h | 5 h | 8 h | 10 h |
|------------|-----------------|--------|--------|--------|------|------|------|------|------|------|
| A602/225 | NGA6020225HS0FC | 194 | 171 | 137 | 90.0 | 68.1 | 52.0 | 36.3 | 25.2 | 21.3 |
| A602/280 | NGA6020280HS0FC | 243 | 214 | 171 | 113 | 85.1 | 65.0 | 45.4 | 31.5 | 26.6 |
| A602/335 | NGA6020335HS0FC | 291 | 257 | 206 | 135 | 102 | 78.0 | 54.5 | 37.8 | 32.0 |
| A602/415 | NGA6020415HS0FC | 332 | 308 | 249 | 176 | 124 | 101 | 71.3 | 49.1 | 40.0 |
| A602/500 | NGA6020500HS0FC | 398 | 370 | 299 | 211 | 149 | 121 | 85.6 | 58.9 | 48.5 |
| A602/580 | NGA6020580HS0FC | 465 | 431 | 349 | 246 | 174 | 141 | 100 | 68.7 | 56.6 |
| A602/750 | NGA6020750HS0FC | 389 | 368 | 336 | 269 | 202 | 165 | 119 | 82.1 | 67.6 |
| A602/1010 | NGA6021010HS0FC | 519 | 491 | 448 | 359 | 269 | 220 | 159 | 109 | 90.1 |
| A602/1250 | NGA6021250HS0FC | 648 | 613 | 560 | 448 | 337 | 275 | 199 | 137 | 113 |
| A602/1510 | NGA6021510HS0FC | 701 | 701 | 672 | 538 | 404 | 330 | 238 | 164 | 135 |
| A602/1650C | NGA6021650HS0FE | 702 | 702 | 683 | 597 | 431 | 339 | 252 | 181 | 150 |
| A602/2200 | NGA6022200HS0FC | 1031 | 972 | 864 | 680 | 555 | 463 | 335 | 241 | 200 |
| A602/2740 | NGA6022740HS0FC | 1288 | 1215 | 1080 | 850 | 693 | 578 | 419 | 302 | 249 |
| A602/3300 | NGA6023300HS0FC | 1546 | 1458 | 1296 | 1020 | 832 | 694 | 503 | 362 | 299 |

Sonnenschein A600

Constant current discharge · A600 cells

1.83 Vpc – Discharge in A at 20 °C

| Type | Part number | 10 min | 15 min | 30 min | 1 h | 2 h | 3 h | 5 h | 8 h | 10 h |
|------------|-----------------|--------|--------|--------|------|------|------|------|------|------|
| A602/225 | NGA6020225HS0FC | 209 | 182 | 148 | 97.7 | 71.4 | 54.9 | 38.0 | 26.2 | 22.0 |
| A602/280 | NGA6020280HS0FC | 261 | 228 | 185 | 122 | 89.3 | 68.6 | 47.5 | 32.8 | 27.5 |
| A602/335 | NGA6020335HS0FC | 314 | 273 | 222 | 147 | 107 | 82.4 | 57.0 | 39.3 | 33.0 |
| A602/415 | NGA6020415HS0FC | 350 | 337 | 265 | 187 | 130 | 104 | 72.9 | 49.8 | 40.9 |
| A602/500 | NGA6020500HS0FC | 420 | 404 | 318 | 224 | 156 | 125 | 87.5 | 59.8 | 49.1 |
| A602/580 | NGA6020580HS0FC | 490 | 472 | 371 | 262 | 182 | 146 | 102 | 69.7 | 57.3 |
| A602/750 | NGA6020750HS0FC | 421 | 404 | 365 | 290 | 216 | 175 | 125 | 86.3 | 70.4 |
| A602/1010 | NGA6021010HS0FC | 561 | 539 | 487 | 387 | 288 | 233 | 167 | 115 | 93.9 |
| A602/1250 | NGA6021250HS0FC | 702 | 673 | 608 | 483 | 360 | 292 | 208 | 144 | 117 |
| A602/1510 | NGA6021510HS0FC | 755 | 755 | 716 | 580 | 432 | 350 | 250 | 173 | 141 |
| A602/1650C | NGA6021650HS0FE | 756 | 756 | 717 | 645 | 480 | 374 | 268 | 190 | 157 |
| A602/2200 | NGA6022200HS0FC | 1123 | 1077 | 944 | 733 | 589 | 497 | 358 | 254 | 210 |
| A602/2740 | NGA6022740HS0FC | 1403 | 1347 | 1180 | 917 | 737 | 622 | 447 | 317 | 262 |
| A602/3300 | NGA6023300HS0FC | 1684 | 1616 | 1416 | 1100 | 884 | 746 | 537 | 381 | 314 |

1.80 Vpc – Discharge in A at 20 °C

| Type | Part number | 10 min | 15 min | 30 min | 1 h | 2 h | 3 h | 5 h | 8 h | 10 h |
|------------|-----------------|--------|--------|--------|------|------|------|------|------|------|
| A602/225 | NGA6020225HS0FC | 232 | 196 | 162 | 106 | 75.6 | 58.0 | 39.2 | 26.6 | 22.4 |
| A602/280 | NGA6020280HS0FC | 290 | 245 | 203 | 133 | 94.5 | 72.5 | 49.0 | 33.3 | 28.0 |
| A602/335 | NGA6020335HS0FC | 348 | 294 | 243 | 159 | 113 | 87.0 | 58.8 | 39.9 | 33.7 |
| A602/415 | NGA6020415HS0FC | 397 | 364 | 280 | 201 | 135 | 107 | 75.1 | 50.8 | 41.6 |
| A602/500 | NGA6020500HS0FC | 476 | 437 | 336 | 241 | 162 | 128 | 90.1 | 61.0 | 49.9 |
| A602/580 | NGA6020580HS0FC | 556 | 510 | 392 | 281 | 189 | 149 | 105 | 71.1 | 58.2 |
| A602/750 | NGA6020750HS0FC | 478 | 458 | 388 | 314 | 228 | 182 | 131 | 90.5 | 74.8 |
| A602/1010 | NGA6021010HS0FC | 637 | 611 | 517 | 419 | 304 | 243 | 175 | 121 | 99.8 |
| A602/1250 | NGA6021250HS0FC | 797 | 763 | 647 | 523 | 380 | 303 | 218 | 151 | 125 |
| A602/1510 | NGA6021510HS0FC | 858 | 858 | 776 | 628 | 456 | 364 | 262 | 181 | 150 |
| A602/1650C | NGA6021650HS0FE | 859 | 859 | 808 | 694 | 526 | 410 | 287 | 199 | 164 |
| A602/2200 | NGA6022200HS0FC | 1279 | 1197 | 1076 | 863 | 657 | 531 | 378 | 266 | 219 |
| A602/2740 | NGA6022740HS0FC | 1598 | 1497 | 1345 | 1078 | 822 | 663 | 473 | 332 | 274 |
| A602/3300 | NGA6023300HS0FC | 1918 | 1796 | 1614 | 1294 | 986 | 796 | 567 | 399 | 329 |

1.75 Vpc – Discharge in A at 20 °C

| Type | Part number | 10 min | 15 min | 30 min | 1 h | 2 h | 3 h | 5 h | 8 h | 10 h |
|------------|-----------------|--------|--------|--------|------|------|------|------|------|------|
| A602/225 | NGA6020225HS0FC | 265 | 229 | 182 | 115 | 79.9 | 60.3 | 39.8 | 27.0 | 22.6 |
| A602/280 | NGA6020280HS0FC | 331 | 286 | 228 | 144 | 100 | 75.4 | 49.8 | 33.8 | 28.3 |
| A602/335 | NGA6020335HS0FC | 398 | 344 | 273 | 173 | 120 | 90.5 | 59.7 | 40.5 | 33.9 |
| A602/415 | NGA6020415HS0FC | 423 | 389 | 300 | 215 | 139 | 109 | 76.6 | 51.8 | 42.6 |
| A602/500 | NGA6020500HS0FC | 508 | 467 | 360 | 258 | 167 | 131 | 91.9 | 62.2 | 51.1 |
| A602/580 | NGA6020580HS0FC | 592 | 545 | 420 | 301 | 195 | 153 | 107 | 72.5 | 59.6 |
| A602/750 | NGA6020750HS0FC | 561 | 534 | 463 | 354 | 240 | 190 | 135 | 92.2 | 75.9 |
| A602/1010 | NGA6021010HS0FC | 748 | 712 | 617 | 472 | 320 | 253 | 180 | 123 | 101 |
| A602/1250 | NGA6021250HS0FC | 935 | 890 | 772 | 590 | 400 | 317 | 225 | 154 | 127 |
| A602/1510 | NGA6021510HS0FC | 1048 | 1048 | 926 | 708 | 480 | 380 | 269 | 184 | 152 |
| A602/1650C | NGA6021650HS0FE | 1049 | 1049 | 982 | 777 | 585 | 452 | 309 | 209 | 172 |
| A602/2200 | NGA6022200HS0FC | 1356 | 1313 | 1237 | 1012 | 712 | 567 | 397 | 278 | 229 |
| A602/2740 | NGA6022740HS0FC | 1695 | 1642 | 1547 | 1265 | 890 | 708 | 496 | 348 | 287 |
| A602/3300 | NGA6023300HS0FC | 2034 | 1970 | 1856 | 1518 | 1068 | 850 | 596 | 418 | 344 |

Sonnenschein A600

Constant current discharge · A600 cells

1.70 Vpc – Discharge in A at 20 °C

| Type | Part number | 10 min | 15 min | 30 min | 1 h | 2 h | 3 h | 5 h | 8 h | 10 h |
|------------|-----------------|--------|--------|--------|------|------|------|------|------|------|
| A602/225 | NGA6020225HS0FC | 290 | 258 | 201 | 120 | 81.6 | 60.8 | 40.2 | 27.3 | 22.7 |
| A602/280 | NGA6020280HS0FC | 363 | 323 | 251 | 150 | 102 | 76.0 | 50.3 | 34.1 | 28.4 |
| A602/335 | NGA6020335HS0FC | 435 | 387 | 302 | 180 | 122 | 91.2 | 60.3 | 41.0 | 34.1 |
| A602/415 | NGA6020415HS0FC | 468 | 425 | 334 | 220 | 142 | 111 | 78.2 | 52.4 | 43.0 |
| A602/500 | NGA6020500HS0FC | 562 | 510 | 401 | 264 | 170 | 133 | 93.8 | 62.9 | 51.6 |
| A602/580 | NGA6020580HS0FC | 655 | 595 | 468 | 308 | 199 | 155 | 109 | 73.4 | 60.2 |
| A602/750 | NGA6020750HS0FC | 639 | 615 | 527 | 388 | 252 | 195 | 136 | 92.7 | 76.4 |
| A602/1010 | NGA6021010HS0FC | 852 | 820 | 703 | 517 | 336 | 260 | 181 | 124 | 102 |
| A602/1250 | NGA6021250HS0FC | 1065 | 1025 | 878 | 647 | 420 | 325 | 226 | 155 | 127 |
| A602/1510 | NGA6021510HS0FC | 1267 | 1230 | 1054 | 776 | 504 | 390 | 271 | 185 | 153 |
| A602/1650C | NGA6021650HS0FE | 1268 | 1260 | 1135 | 903 | 623 | 479 | 322 | 222 | 176 |
| A602/2200 | NGA6022200HS0FC | 1557 | 1480 | 1365 | 1140 | 753 | 580 | 406 | 285 | 234 |
| A602/2740 | NGA6022740HS0FC | 1947 | 1850 | 1707 | 1425 | 942 | 725 | 507 | 356 | 293 |
| A602/3300 | NGA6023300HS0FC | 2336 | 2220 | 2048 | 1710 | 1130 | 870 | 608 | 427 | 351 |

1.65 Vpc – Discharge in A at 20 °C

| Type | Part number | 10 min | 15 min | 30 min | 1 h | 2 h | 3 h | 5 h | 8 h | 10 h |
|------------|-----------------|--------|--------|--------|------|------|------|------|------|------|
| A602/225 | NGA6020225HS0FC | 314 | 278 | 212 | 122 | 82.5 | 61.0 | 40.4 | 27.5 | 22.8 |
| A602/280 | NGA6020280HS0FC | 393 | 348 | 265 | 153 | 103 | 76.3 | 50.5 | 34.4 | 28.5 |
| A602/335 | NGA6020335HS0FC | 471 | 417 | 318 | 183 | 124 | 91.5 | 60.6 | 41.3 | 34.2 |
| A602/415 | NGA6020415HS0FC | 488 | 458 | 354 | 230 | 144 | 112 | 79.3 | 52.8 | 43.4 |
| A602/500 | NGA6020500HS0FC | 586 | 550 | 425 | 276 | 173 | 134 | 95.2 | 63.4 | 52.1 |
| A602/580 | NGA6020580HS0FC | 683 | 641 | 496 | 322 | 202 | 157 | 111 | 73.9 | 60.8 |
| A602/750 | NGA6020750HS0FC | 715 | 696 | 583 | 411 | 255 | 197 | 136 | 93.2 | 76.8 |
| A602/1010 | NGA6021010HS0FC | 953 | 928 | 777 | 548 | 340 | 262 | 182 | 124 | 102 |
| A602/1250 | NGA6021250HS0FC | 1192 | 1160 | 972 | 685 | 425 | 328 | 227 | 155 | 128 |
| A602/1510 | NGA6021510HS0FC | 1430 | 1392 | 1166 | 822 | 510 | 394 | 272 | 186 | 154 |
| A602/1650C | NGA6021650HS0FE | 1463 | 1446 | 1249 | 960 | 645 | 491 | 328 | 225 | 178 |
| A602/2200 | NGA6022200HS0FC | 1760 | 1608 | 1476 | 1208 | 777 | 596 | 413 | 289 | 238 |
| A602/2740 | NGA6022740HS0FC | 2200 | 2010 | 1845 | 1510 | 972 | 745 | 516 | 361 | 297 |
| A602/3300 | NGA6023300HS0FC | 2640 | 2412 | 2214 | 1812 | 1166 | 894 | 619 | 433 | 356 |

1.60 Vpc – Discharge in A at 20 °C

| Type | Part number | 10 min | 15 min | 30 min | 1 h | 2 h | 3 h | 5 h | 8 h | 10 h |
|------------|-----------------|--------|--------|--------|------|------|------|------|------|------|
| A602/225 | NGA6020225HS0FC | 326 | 300 | 222 | 123 | 82.8 | 61.2 | 40.6 | 27.6 | 22.9 |
| A602/280 | NGA6020280HS0FC | 408 | 375 | 278 | 154 | 104 | 76.5 | 50.8 | 34.5 | 28.6 |
| A602/335 | NGA6020335HS0FC | 489 | 450 | 333 | 185 | 124 | 91.8 | 60.9 | 41.4 | 34.4 |
| A602/415 | NGA6020415HS0FC | 500 | 478 | 382 | 238 | 146 | 113 | 80.2 | 53.2 | 43.8 |
| A602/500 | NGA6020500HS0FC | 600 | 574 | 458 | 286 | 175 | 136 | 96.2 | 63.8 | 52.6 |
| A602/580 | NGA6020580HS0FC | 700 | 669 | 535 | 333 | 204 | 158 | 112 | 74.5 | 61.3 |
| A602/750 | NGA6020750HS0FC | 786 | 767 | 632 | 429 | 260 | 198 | 137 | 93.6 | 77.2 |
| A602/1010 | NGA6021010HS0FC | 1048 | 1023 | 843 | 572 | 347 | 264 | 182 | 125 | 103 |
| A602/1250 | NGA6021250HS0FC | 1310 | 1278 | 1053 | 715 | 433 | 330 | 228 | 156 | 129 |
| A602/1510 | NGA6021510HS0FC | 1572 | 1534 | 1264 | 858 | 520 | 396 | 273 | 187 | 154 |
| A602/1650C | NGA6021650HS0FE | 1604 | 1480 | 1295 | 992 | 662 | 497 | 332 | 226 | 180 |
| A602/2200 | NGA6022200HS0FC | 2059 | 1872 | 1664 | 1267 | 807 | 607 | 417 | 292 | 240 |
| A602/2740 | NGA6022740HS0FC | 2573 | 2340 | 2080 | 1583 | 1008 | 758 | 522 | 365 | 300 |
| A602/3300 | NGA6023300HS0FC | 3088 | 2808 | 2496 | 1900 | 1210 | 910 | 626 | 438 | 360 |

Sonnenschein A600

Constant power discharge · A600 blocks

1.87 Vpc – Discharge in W/block at 20 °C

| Type | Part number | 5 min | 10 min | 15 min | 30 min | 1 h | 2 h | 3 h | 4 h | 5 h | 8 h | 10 h |
|----------|-----------------|-------|--------|--------|--------|-----|-----|-----|-----|-----|-----|------|
| A606/200 | NGA6060200HS0FB | 999 | 915 | 774 | 654 | 468 | 324 | 247 | 201 | 171 | 118 | 98.0 |
| A606/300 | NGA6060300HS0FB | 1500 | 1341 | 1206 | 918 | 687 | 480 | 372 | 300 | 256 | 177 | 147 |
| A612/100 | NGA6120100HS0FB | 1092 | 978 | 858 | 726 | 490 | 329 | 247 | 200 | 170 | 118 | 98.0 |
| A612/150 | NGA6120150HS0FB | 1566 | 1422 | 1218 | 1032 | 720 | 491 | 370 | 301 | 255 | 177 | 146 |

1.83 Vpc – Discharge in W/block at 20 °C

| Type | Part number | 5 min | 10 min | 15 min | 30 min | 1 h | 2 h | 3 h | 4 h | 5 h | 8 h | 10 h |
|----------|-----------------|-------|--------|--------|--------|-----|-----|-----|-----|-----|-----|------|
| A606/200 | NGA6060200HS0FB | 1131 | 999 | 900 | 729 | 516 | 342 | 261 | 211 | 179 | 124 | 102 |
| A606/300 | NGA6060300HS0FB | 1551 | 1374 | 1227 | 1056 | 756 | 507 | 393 | 315 | 268 | 183 | 153 |
| A612/100 | NGA6120100HS0FB | 1236 | 1068 | 984 | 792 | 536 | 347 | 261 | 211 | 179 | 124 | 101 |
| A612/150 | NGA6120150HS0FB | 1788 | 1554 | 1398 | 1146 | 786 | 517 | 392 | 316 | 268 | 187 | 153 |

1.80 Vpc – Discharge in W/block at 20 °C

| Type | Part number | 5 min | 10 min | 15 min | 30 min | 1 h | 2 h | 3 h | 4 h | 5 h | 8 h | 10 h |
|----------|-----------------|-------|--------|--------|--------|-----|-----|-----|-----|-----|-----|------|
| A606/200 | NGA6060200HS0FB | 1254 | 1098 | 993 | 816 | 567 | 363 | 277 | 220 | 185 | 128 | 106 |
| A606/300 | NGA6060300HS0FB | 1704 | 1533 | 1368 | 1188 | 831 | 537 | 414 | 330 | 277 | 192 | 159 |
| A612/100 | NGA6120100HS0FB | 1368 | 1188 | 1062 | 834 | 587 | 364 | 276 | 215 | 185 | 127 | 106 |
| A612/150 | NGA6120150HS0FB | 1968 | 1716 | 1548 | 1212 | 864 | 542 | 415 | 329 | 277 | 191 | 159 |

1.75 Vpc – Discharge in W/block at 20 °C

| Type | Part number | 5 min | 10 min | 15 min | 30 min | 1 h | 2 h | 3 h | 4 h | 5 h | 8 h | 10 h |
|----------|-----------------|-------|--------|--------|--------|-----|-----|-----|-----|-----|-----|------|
| A606/200 | NGA6060200HS0FB | 1335 | 1206 | 999 | 834 | 597 | 372 | 280 | 224 | 189 | 129 | 106 |
| A606/300 | NGA6060300HS0FB | 1827 | 1695 | 1383 | 1221 | 882 | 549 | 420 | 333 | 284 | 193 | 159 |
| A612/100 | NGA6120100HS0FB | 1470 | 1314 | 1122 | 894 | 618 | 377 | 280 | 223 | 188 | 128 | 106 |
| A612/150 | NGA6120150HS0FB | 2112 | 1902 | 1578 | 1296 | 912 | 562 | 419 | 335 | 283 | 193 | 159 |

1.70 Vpc – Discharge in W/block at 20 °C

| Type | Part number | 5 min | 10 min | 15 min | 30 min | 1 h | 2 h | 3 h | 4 h | 5 h | 8 h | 10 h |
|----------|-----------------|-------|--------|--------|--------|-----|-----|-----|-----|-----|-----|------|
| A606/200 | NGA6060200HS0FB | 1428 | 1314 | 1170 | 918 | 627 | 390 | 284 | 225 | 190 | 129 | 106 |
| A606/300 | NGA6060300HS0FB | 2037 | 1854 | 1650 | 1347 | 921 | 582 | 426 | 336 | 284 | 193 | 159 |
| A612/100 | NGA6120100HS0FB | 1560 | 1422 | 1290 | 972 | 648 | 400 | 284 | 226 | 190 | 129 | 106 |
| A612/150 | NGA6120150HS0FB | 2262 | 2058 | 1848 | 1410 | 948 | 593 | 427 | 339 | 285 | 193 | 159 |

1.65 Vpc – Discharge in W/block at 20 °C

| Type | Part number | 5 min | 10 min | 15 min | 30 min | 1 h | 2 h | 3 h | 4 h | 5 h | 8 h | 10 h |
|----------|-----------------|-------|--------|--------|--------|-----|-----|-----|-----|-----|-----|------|
| A606/200 | NGA6060200HS0FB | 1575 | 1386 | 1230 | 933 | 627 | 390 | 284 | 225 | 190 | 129 | 106 |
| A606/300 | NGA6060300HS0FB | 2211 | 1974 | 1743 | 1368 | 921 | 582 | 426 | 336 | 284 | 193 | 159 |
| A612/100 | NGA6120100HS0FB | 1686 | 1512 | 1344 | 990 | 648 | 400 | 284 | 226 | 190 | 129 | 106 |
| A612/150 | NGA6120150HS0FB | 2454 | 2196 | 1944 | 1422 | 948 | 593 | 427 | 339 | 285 | 193 | 159 |

Sonnenschein A600

Constant power discharge · A600 cells

1.90 Vpc – Discharge in W/cell at 20 °C

| Type | Part number | 3 min | 5 min | 10 min | 15 min | 20 min | 30 min | 1 h | 2 h | 3 h | 4 h | 5 h |
|------------|-----------------|-------|-------|--------|--------|--------|--------|------|------|------|------|------|
| A602/225 | NGA6020225HS0FC | 265 | 258 | 248 | 236 | 219 | 197 | 158 | 122 | 101 | 83.2 | 69.6 |
| A602/280 | NGA6020280HS0FC | 331 | 323 | 310 | 295 | 274 | 246 | 198 | 153 | 126 | 104 | 87.0 |
| A602/335 | NGA6020335HS0FC | 398 | 387 | 372 | 354 | 329 | 296 | 237 | 183 | 152 | 125 | 104 |
| A602/415 | NGA6020415HS0FC | 481 | 473 | 463 | 410 | 384 | 343 | 273 | 205 | 158 | 130 | 111 |
| A602/500 | NGA6020500HS0FC | 577 | 568 | 556 | 492 | 461 | 412 | 328 | 246 | 190 | 156 | 133 |
| A602/580 | NGA6020580HS0FC | 673 | 662 | 648 | 574 | 538 | 480 | 382 | 287 | 221 | 182 | 155 |
| A602/750 | NGA6020750HS0FC | 743 | 683 | 588 | 535 | 513 | 495 | 436 | 357 | 294 | 248 | 211 |
| A602/1010 | NGA6021010HS0FC | 991 | 911 | 784 | 713 | 684 | 660 | 581 | 476 | 392 | 331 | 281 |
| A602/1250 | NGA6021250HS0FC | 1019 | 1019 | 980 | 892 | 855 | 825 | 727 | 595 | 490 | 413 | 352 |
| A602/1510 | NGA6021510HS0FC | 1020 | 1020 | 1020 | 1020 | 1020 | 990 | 872 | 714 | 588 | 496 | 422 |
| A602/1650C | NGA6021650HS0FE | 1021 | 1021 | 1021 | 1021 | 1021 | 1021 | 765 | 598 | 513 | 461 | 415 |
| A602/2200 | NGA6022200HS0FC | 1411 | 1399 | 1373 | 1344 | 1323 | 1287 | 1152 | 908 | 732 | 596 | 511 |
| A602/2740 | NGA6022740HS0FC | 1763 | 1748 | 1717 | 1680 | 1653 | 1608 | 1440 | 1135 | 915 | 745 | 638 |
| A602/3300 | NGA6023300HS0FC | 2116 | 2098 | 2060 | 2016 | 1984 | 1930 | 1728 | 1362 | 1098 | 894 | 766 |

1.87 Vpc – Discharge in W/cell at 20 °C

| Type | Part number | 3 min | 5 min | 10 min | 15 min | 20 min | 30 min | 1 h | 2 h | 3 h | 4 h | 5 h |
|------------|-----------------|-------|-------|--------|--------|--------|--------|------|------|------|------|------|
| A602/225 | NGA6020225HS0FC | 315 | 300 | 289 | 270 | 255 | 229 | 172 | 130 | 107 | 90.4 | 76.9 |
| A602/280 | NGA6020280HS0FC | 394 | 375 | 361 | 338 | 319 | 286 | 215 | 163 | 134 | 113 | 96.1 |
| A602/335 | NGA6020335HS0FC | 473 | 450 | 434 | 405 | 383 | 344 | 258 | 195 | 161 | 136 | 115 |
| A602/415 | NGA6020415HS0FC | 534 | 509 | 485 | 445 | 418 | 375 | 302 | 223 | 180 | 146 | 121 |
| A602/500 | NGA6020500HS0FC | 641 | 611 | 582 | 534 | 502 | 450 | 362 | 268 | 216 | 175 | 145 |
| A602/580 | NGA6020580HS0FC | 748 | 713 | 679 | 623 | 585 | 525 | 423 | 312 | 252 | 204 | 169 |
| A602/750 | NGA6020750HS0FC | 772 | 757 | 712 | 648 | 636 | 592 | 495 | 395 | 328 | 276 | 229 |
| A602/1010 | NGA6021010HS0FC | 1029 | 1009 | 949 | 864 | 848 | 789 | 660 | 527 | 437 | 368 | 305 |
| A602/1250 | NGA6021250HS0FC | 1161 | 1161 | 1161 | 1080 | 1060 | 987 | 825 | 658 | 547 | 460 | 382 |
| A602/1510 | NGA6021510HS0FC | 1162 | 1162 | 1162 | 1162 | 1162 | 1162 | 990 | 790 | 656 | 552 | 458 |
| A602/1650C | NGA6021650HS0FE | 1163 | 1163 | 1163 | 1163 | 1163 | 1163 | 997 | 769 | 632 | 523 | 442 |
| A602/2200 | NGA6022200HS0FC | 1523 | 1507 | 1467 | 1423 | 1396 | 1357 | 1251 | 1025 | 843 | 697 | 589 |
| A602/2740 | NGA6022740HS0FC | 1903 | 1883 | 1833 | 1778 | 1745 | 1697 | 1563 | 1282 | 1053 | 872 | 737 |
| A602/3300 | NGA6023300HS0FC | 2284 | 2260 | 2200 | 2134 | 2094 | 2036 | 1876 | 1538 | 1264 | 1046 | 884 |

1.85 Vpc – Discharge in W/cell at 20 °C

| Type | Part number | 3 min | 5 min | 10 min | 15 min | 20 min | 30 min | 1 h | 2 h | 3 h | 4 h | 5 h |
|------------|-----------------|-------|-------|--------|--------|--------|--------|------|------|------|------|------|
| A602/225 | NGA6020225HS0FC | 343 | 326 | 305 | 290 | 270 | 246 | 181 | 134 | 111 | 94.6 | 80.0 |
| A602/280 | NGA6020280HS0FC | 429 | 408 | 381 | 363 | 338 | 308 | 226 | 168 | 139 | 118 | 100 |
| A602/335 | NGA6020335HS0FC | 515 | 489 | 458 | 435 | 405 | 369 | 272 | 201 | 167 | 142 | 120 |
| A602/415 | NGA6020415HS0FC | 612 | 569 | 528 | 489 | 457 | 401 | 323 | 234 | 188 | 153 | 128 |
| A602/500 | NGA6020500HS0FC | 734 | 683 | 634 | 587 | 548 | 481 | 388 | 281 | 226 | 184 | 154 |
| A602/580 | NGA6020580HS0FC | 857 | 797 | 739 | 685 | 640 | 561 | 452 | 328 | 263 | 214 | 179 |
| A602/750 | NGA6020750HS0FC | 798 | 772 | 748 | 696 | 686 | 643 | 523 | 410 | 343 | 288 | 240 |
| A602/1010 | NGA6021010HS0FC | 1064 | 1029 | 997 | 928 | 915 | 857 | 697 | 547 | 457 | 384 | 320 |
| A602/1250 | NGA6021250HS0FC | 1264 | 1264 | 1247 | 1160 | 1143 | 1072 | 872 | 683 | 572 | 480 | 400 |
| A602/1510 | NGA6021510HS0FC | 1265 | 1265 | 1265 | 1265 | 1265 | 1238 | 1046 | 820 | 686 | 576 | 480 |
| A602/1650C | NGA6021650HS0FE | 1266 | 1266 | 1266 | 1266 | 1266 | 1239 | 1102 | 797 | 635 | 539 | 484 |
| A602/2200 | NGA6022200HS0FC | 1673 | 1653 | 1587 | 1520 | 1467 | 1403 | 1301 | 1101 | 916 | 757 | 639 |
| A602/2740 | NGA6022740HS0FC | 2092 | 2067 | 1983 | 1900 | 1833 | 1753 | 1627 | 1377 | 1145 | 947 | 798 |
| A602/3300 | NGA6023300HS0FC | 2510 | 2480 | 2380 | 2280 | 2200 | 2104 | 1952 | 1652 | 1374 | 1136 | 958 |

Sonnenschein A600

Constant power discharge · A600 cells

1.83 Vpc – Discharge in W/cell at 20 °C

| Type | Part number | 3 min | 5 min | 10 min | 15 min | 20 min | 30 min | 1 h | 2 h | 3 h | 4 h | 5 h |
|------------|-----------------|-------|-------|--------|--------|--------|--------|------|------|------|------|------|
| A602/225 | NGA6020225HS0FC | 357 | 342 | 331 | 305 | 290 | 265 | 189 | 137 | 114 | 96.7 | 82.1 |
| A602/280 | NGA6020280HS0FC | 446 | 428 | 414 | 381 | 363 | 331 | 236 | 171 | 143 | 121 | 103 |
| A602/335 | NGA6020335HS0FC | 536 | 513 | 497 | 458 | 435 | 398 | 284 | 206 | 171 | 145 | 123 |
| A602/415 | NGA6020415HS0FC | 636 | 603 | 561 | 520 | 491 | 431 | 341 | 242 | 196 | 159 | 134 |
| A602/500 | NGA6020500HS0FC | 763 | 724 | 673 | 624 | 589 | 517 | 409 | 290 | 235 | 191 | 161 |
| A602/580 | NGA6020580HS0FC | 890 | 844 | 785 | 728 | 687 | 603 | 477 | 339 | 274 | 223 | 188 |
| A602/750 | NGA6020750HS0FC | 856 | 819 | 790 | 748 | 732 | 698 | 550 | 424 | 357 | 300 | 249 |
| A602/1010 | NGA6021010HS0FC | 1141 | 1092 | 1053 | 997 | 976 | 931 | 733 | 565 | 476 | 400 | 332 |
| A602/1250 | NGA6021250HS0FC | 1374 | 1365 | 1317 | 1247 | 1220 | 1163 | 917 | 707 | 595 | 500 | 415 |
| A602/1510 | NGA6021510HS0FC | 1375 | 1375 | 1375 | 1360 | 1359 | 1316 | 1100 | 848 | 714 | 600 | 498 |
| A602/1650C | NGA6021650HS0FE | 1376 | 1376 | 1376 | 1361 | 1360 | 1317 | 1163 | 868 | 680 | 572 | 511 |
| A602/2200 | NGA6022200HS0FC | 1897 | 1867 | 1840 | 1717 | 1673 | 1517 | 1376 | 1149 | 965 | 807 | 681 |
| A602/2740 | NGA6022740HS0FC | 2372 | 2333 | 2300 | 2147 | 2092 | 1897 | 1720 | 1437 | 1207 | 1008 | 852 |
| A602/3300 | NGA6023300HS0FC | 2846 | 2800 | 2760 | 2576 | 2510 | 2276 | 2064 | 1724 | 1448 | 1210 | 1022 |

1.80 Vpc – Discharge in W/cell at 20 °C

| Type | Part number | 3 min | 5 min | 10 min | 15 min | 20 min | 30 min | 1 h | 2 h | 3 h | 4 h | 5 h |
|------------|-----------------|-------|-------|--------|--------|--------|--------|------|------|------|------|------|
| A602/225 | NGA6020225HS0FC | 393 | 367 | 358 | 335 | 309 | 283 | 199 | 140 | 117 | 100 | 84.2 |
| A602/280 | NGA6020280HS0FC | 491 | 459 | 448 | 419 | 386 | 354 | 249 | 175 | 146 | 125 | 105 |
| A602/335 | NGA6020335HS0FC | 590 | 551 | 537 | 503 | 464 | 425 | 299 | 210 | 176 | 150 | 126 |
| A602/415 | NGA6020415HS0FC | 710 | 669 | 603 | 572 | 540 | 480 | 368 | 252 | 201 | 166 | 140 |
| A602/500 | NGA6020500HS0FC | 852 | 803 | 724 | 686 | 648 | 576 | 442 | 302 | 241 | 199 | 168 |
| A602/580 | NGA6020580HS0FC | 994 | 937 | 844 | 801 | 756 | 672 | 515 | 353 | 281 | 232 | 196 |
| A602/750 | NGA6020750HS0FC | 964 | 939 | 888 | 833 | 810 | 782 | 597 | 439 | 372 | 314 | 263 |
| A602/1010 | NGA6021010HS0FC | 1285 | 1252 | 1184 | 1111 | 1080 | 1043 | 796 | 585 | 496 | 419 | 351 |
| A602/1250 | NGA6021250HS0FC | 1539 | 1539 | 1480 | 1388 | 1350 | 1303 | 995 | 732 | 620 | 523 | 438 |
| A602/1510 | NGA6021510HS0FC | 1540 | 1540 | 1540 | 1540 | 1540 | 1441 | 1189 | 878 | 744 | 628 | 526 |
| A602/1650C | NGA6021650HS0FE | 1541 | 1541 | 1541 | 1541 | 1541 | 1442 | 1190 | 961 | 746 | 619 | 538 |
| A602/2200 | NGA6022200HS0FC | 2171 | 2133 | 2072 | 1961 | 1903 | 1765 | 1541 | 1209 | 1024 | 867 | 728 |
| A602/2740 | NGA6022740HS0FC | 2713 | 2667 | 2590 | 2452 | 2378 | 2207 | 1927 | 1512 | 1280 | 1083 | 910 |
| A602/3300 | NGA6023300HS0FC | 3256 | 3200 | 3108 | 2942 | 2854 | 2648 | 2312 | 1814 | 1536 | 1300 | 1092 |

1.75 Vpc – Discharge in W/cell at 20 °C

| Type | Part number | 3 min | 5 min | 10 min | 15 min | 20 min | 30 min | 1 h | 2 h | 3 h | 4 h | 5 h |
|------------|-----------------|-------|-------|--------|--------|--------|--------|------|------|------|------|------|
| A602/225 | NGA6020225HS0FC | 454 | 442 | 410 | 390 | 352 | 312 | 211 | 144 | 121 | 102 | 87.3 |
| A602/280 | NGA6020280HS0FC | 568 | 553 | 513 | 488 | 440 | 390 | 264 | 180 | 151 | 128 | 109 |
| A602/335 | NGA6020335HS0FC | 681 | 663 | 615 | 585 | 528 | 468 | 317 | 216 | 182 | 153 | 131 |
| A602/415 | NGA6020415HS0FC | 764 | 743 | 676 | 624 | 600 | 526 | 398 | 265 | 206 | 171 | 143 |
| A602/500 | NGA6020500HS0FC | 917 | 892 | 811 | 749 | 720 | 631 | 478 | 318 | 247 | 205 | 171 |
| A602/580 | NGA6020580HS0FC | 1070 | 1040 | 946 | 874 | 840 | 736 | 557 | 371 | 288 | 239 | 200 |
| A602/750 | NGA6020750HS0FC | 1069 | 1048 | 1007 | 955 | 918 | 880 | 670 | 457 | 386 | 329 | 275 |
| A602/1010 | NGA6021010HS0FC | 1425 | 1397 | 1343 | 1273 | 1224 | 1173 | 893 | 609 | 515 | 439 | 367 |
| A602/1250 | NGA6021250HS0FC | 1782 | 1747 | 1678 | 1592 | 1530 | 1467 | 1117 | 762 | 643 | 548 | 458 |
| A602/1510 | NGA6021510HS0FC | 1817 | 1817 | 1817 | 1817 | 1817 | 1736 | 1340 | 914 | 772 | 658 | 550 |
| A602/1650C | NGA6021650HS0FE | 1818 | 1818 | 1818 | 1818 | 1818 | 1737 | 1341 | 1046 | 827 | 671 | 582 |
| A602/2200 | NGA6022200HS0FC | 2479 | 2459 | 2401 | 2224 | 2120 | 1985 | 1684 | 1268 | 1088 | 919 | 776 |
| A602/2740 | NGA6022740HS0FC | 3098 | 3073 | 3002 | 2780 | 2650 | 2482 | 2105 | 1585 | 1360 | 1148 | 970 |
| A602/3300 | NGA6023300HS0FC | 3718 | 3688 | 3602 | 3336 | 3180 | 2978 | 2526 | 1902 | 1632 | 1378 | 1164 |

Sonnenschein A600

Constant power discharge · A600 cells

1.70 Vpc – Discharge in W/cell at 20 °C

| Type | Part number | 3 min | 5 min | 10 min | 15 min | 20 min | 30 min | 1 h | 2 h | 3 h | 4 h | 5 h |
|------------|-----------------|-------|-------|--------|--------|--------|--------|------|------|------|------|------|
| A602/225 | NGA6020225HS0FC | 539 | 504 | 454 | 430 | 390 | 346 | 225 | 146 | 122 | 104 | 88.9 |
| A602/280 | NGA6020280HS0FC | 674 | 630 | 568 | 538 | 488 | 433 | 281 | 183 | 153 | 130 | 111 |
| A602/335 | NGA6020335HS0FC | 809 | 756 | 681 | 645 | 585 | 519 | 338 | 219 | 183 | 156 | 133 |
| A602/415 | NGA6020415HS0FC | 849 | 811 | 764 | 696 | 650 | 573 | 421 | 275 | 209 | 173 | 143 |
| A602/500 | NGA6020500HS0FC | 1019 | 973 | 917 | 835 | 780 | 688 | 505 | 330 | 251 | 207 | 172 |
| A602/580 | NGA6020580HS0FC | 1189 | 1135 | 1070 | 974 | 910 | 802 | 589 | 385 | 293 | 242 | 200 |
| A602/750 | NGA6020750HS0FC | 1208 | 1173 | 1120 | 1060 | 1006 | 960 | 725 | 479 | 395 | 338 | 279 |
| A602/1010 | NGA6021010HS0FC | 1611 | 1564 | 1493 | 1413 | 1341 | 1280 | 967 | 639 | 526 | 450 | 372 |
| A602/1250 | NGA6021250HS0FC | 2013 | 1955 | 1867 | 1767 | 1677 | 1600 | 1208 | 798 | 658 | 563 | 465 |
| A602/1510 | NGA6021510HS0FC | 2094 | 2094 | 2094 | 2051 | 2014 | 1844 | 1450 | 958 | 789 | 675 | 558 |
| A602/1650C | NGA6021650HS0FE | 2095 | 2095 | 2095 | 2052 | 2015 | 1845 | 1451 | 1101 | 873 | 704 | 595 |
| A602/2200 | NGA6022200HS0FC | 2627 | 2627 | 2572 | 2481 | 2400 | 2221 | 1801 | 1300 | 1112 | 943 | 800 |
| A602/2740 | NGA6022740HS0FC | 3283 | 3283 | 3215 | 3102 | 3000 | 2777 | 2252 | 1625 | 1390 | 1178 | 1000 |
| A602/3300 | NGA6023300HS0FC | 3940 | 3940 | 3858 | 3722 | 3600 | 3332 | 2702 | 1950 | 1668 | 1414 | 1200 |

1.65 Vpc – Discharge in W/cell at 20 °C

| Type | Part number | 3 min | 5 min | 10 min | 15 min | 20 min | 30 min | 1 h | 2 h | 3 h | 4 h | 5 h |
|------------|-----------------|-------|-------|--------|--------|--------|--------|------|------|------|------|------|
| A602/225 | NGA6020225HS0FC | 636 | 579 | 521 | 464 | 426 | 372 | 235 | 150 | 123 | 105 | 90.4 |
| A602/280 | NGA6020280HS0FC | 795 | 724 | 651 | 580 | 533 | 465 | 294 | 188 | 154 | 131 | 113 |
| A602/335 | NGA6020335HS0FC | 954 | 869 | 782 | 696 | 639 | 558 | 353 | 225 | 185 | 158 | 136 |
| A602/415 | NGA6020415HS0FC | 954 | 915 | 821 | 748 | 710 | 598 | 430 | 276 | 210 | 173 | 143 |
| A602/500 | NGA6020500HS0FC | 1145 | 1098 | 985 | 898 | 852 | 718 | 516 | 331 | 252 | 208 | 172 |
| A602/580 | NGA6020580HS0FC | 1336 | 1281 | 1149 | 1047 | 994 | 837 | 602 | 386 | 294 | 242 | 201 |
| A602/750 | NGA6020750HS0FC | 1386 | 1313 | 1243 | 1173 | 1110 | 1023 | 745 | 495 | 395 | 338 | 280 |
| A602/1010 | NGA6021010HS0FC | 1848 | 1751 | 1657 | 1564 | 1480 | 1364 | 993 | 660 | 527 | 451 | 373 |
| A602/1250 | NGA6021250HS0FC | 2310 | 2188 | 2072 | 1955 | 1850 | 1705 | 1242 | 825 | 658 | 563 | 467 |
| A602/1510 | NGA6021510HS0FC | 2368 | 2368 | 2318 | 2226 | 2151 | 1991 | 1490 | 990 | 790 | 676 | 560 |
| A602/1650C | NGA6021650HS0FE | 2369 | 2369 | 2319 | 2227 | 2151 | 1992 | 1555 | 1150 | 903 | 726 | 612 |
| A602/2200 | NGA6022200HS0FC | 2872 | 2811 | 2707 | 2629 | 2547 | 2408 | 1915 | 1373 | 1137 | 951 | 812 |
| A602/2740 | NGA6022740HS0FC | 3590 | 3513 | 3383 | 3287 | 3183 | 3010 | 2393 | 1717 | 1422 | 1188 | 1015 |
| A602/3300 | NGA6023300HS0FC | 4308 | 4216 | 4060 | 3944 | 3820 | 3612 | 2872 | 2060 | 1706 | 1426 | 1218 |

1.60 Vpc – Discharge in W/cell at 20 °C

| Type | Part number | 3 min | 5 min | 10 min | 15 min | 20 min | 30 min | 1 h | 2 h | 3 h | 4 h | 5 h |
|------------|-----------------|-------|-------|--------|--------|--------|--------|------|------|------|------|------|
| A602/225 | NGA6020225HS0FC | 671 | 620 | 588 | 506 | 459 | 381 | 240 | 152 | 124 | 105 | 90.4 |
| A602/280 | NGA6020280HS0FC | 839 | 775 | 735 | 633 | 574 | 476 | 300 | 190 | 155 | 131 | 113 |
| A602/335 | NGA6020335HS0FC | 1007 | 930 | 882 | 759 | 689 | 572 | 360 | 228 | 186 | 158 | 136 |
| A602/415 | NGA6020415HS0FC | 1017 | 967 | 906 | 790 | 738 | 624 | 436 | 277 | 210 | 173 | 144 |
| A602/500 | NGA6020500HS0FC | 1220 | 1160 | 1087 | 948 | 886 | 749 | 523 | 332 | 252 | 208 | 173 |
| A602/580 | NGA6020580HS0FC | 1424 | 1354 | 1268 | 1106 | 1033 | 874 | 610 | 388 | 294 | 243 | 201 |
| A602/750 | NGA6020750HS0FC | 1469 | 1442 | 1387 | 1272 | 1183 | 1048 | 765 | 502 | 395 | 338 | 280 |
| A602/1010 | NGA6021010HS0FC | 1959 | 1923 | 1849 | 1696 | 1577 | 1397 | 1020 | 669 | 527 | 451 | 374 |
| A602/1250 | NGA6021250HS0FC | 2448 | 2403 | 2312 | 2120 | 1972 | 1747 | 1275 | 837 | 659 | 564 | 467 |
| A602/1510 | NGA6021510HS0FC | 2643 | 2562 | 2376 | 2262 | 2195 | 2087 | 1530 | 1004 | 791 | 677 | 561 |
| A602/1650C | NGA6021650HS0FE | 2644 | 2563 | 2377 | 2263 | 2196 | 2088 | 1616 | 1174 | 915 | 736 | 620 |
| A602/2200 | NGA6022200HS0FC | 3259 | 3120 | 2800 | 2733 | 2667 | 2543 | 2005 | 1387 | 1141 | 961 | 819 |
| A602/2740 | NGA6022740HS0FC | 4073 | 3900 | 3500 | 3417 | 3333 | 3178 | 2507 | 1733 | 1427 | 1202 | 1023 |
| A602/3300 | NGA6023300HS0FC | 4888 | 4680 | 4200 | 4100 | 4000 | 3814 | 3008 | 2080 | 1712 | 1442 | 1228 |

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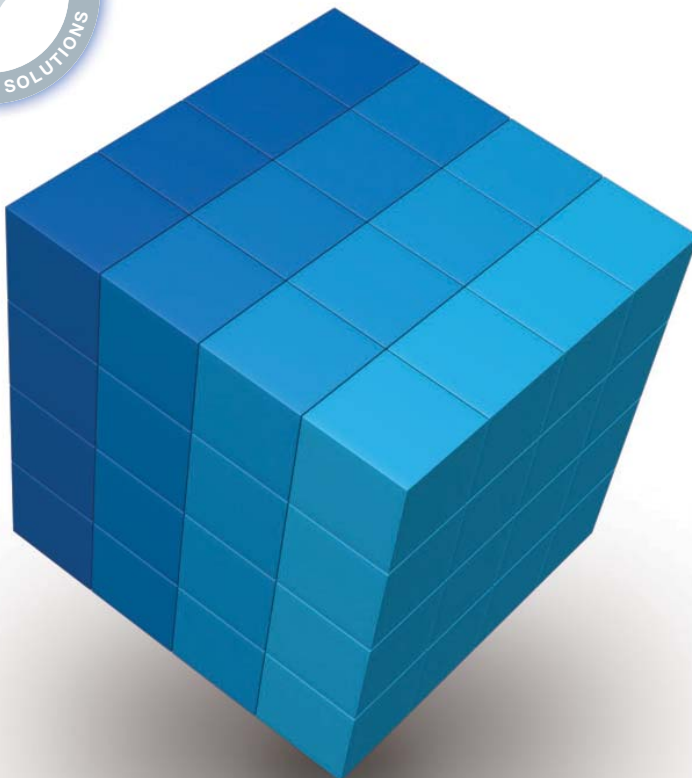
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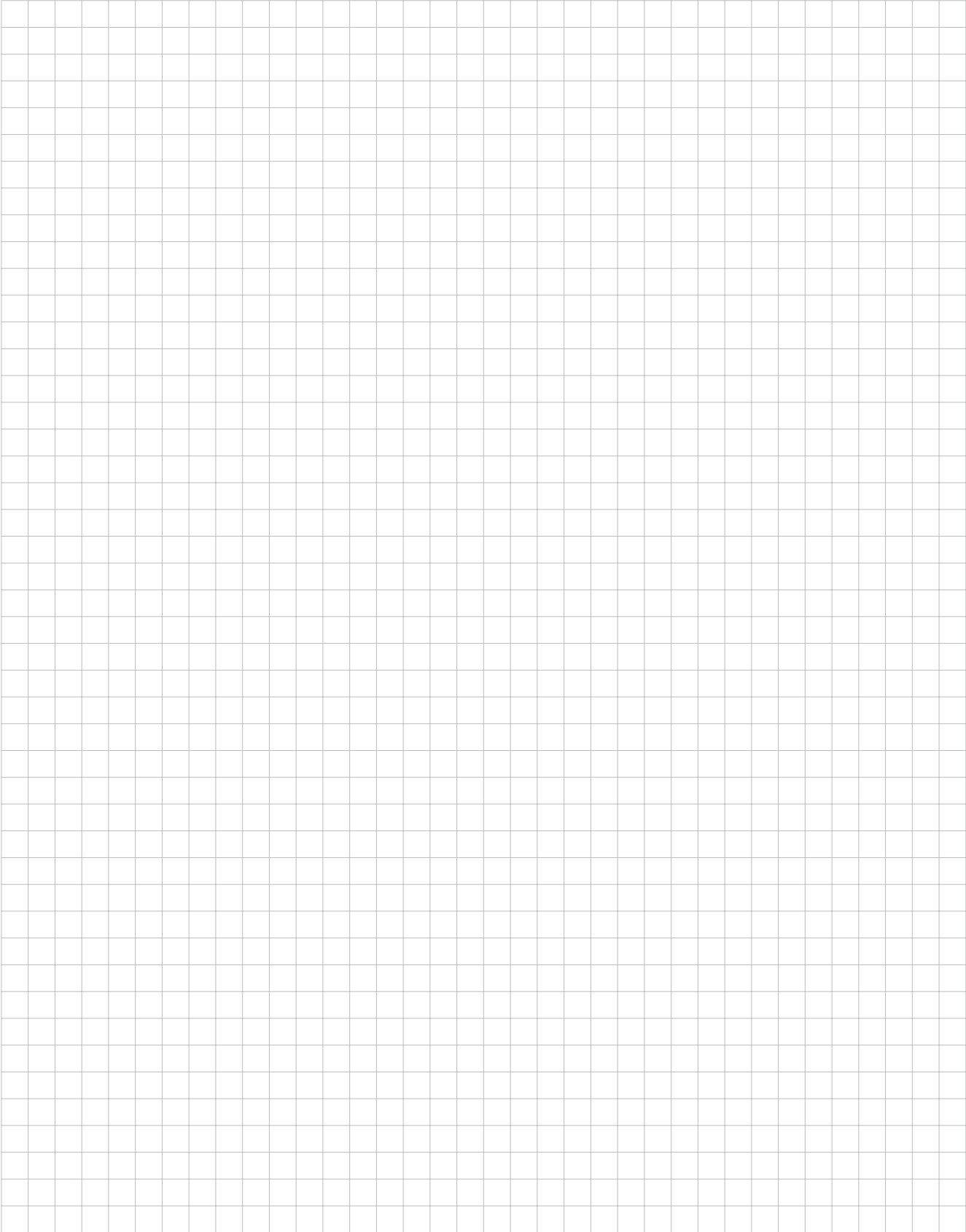
- ✦ Inspection Contract
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- ✦ Lifetime Warranty Contract
- ✦ Full Service Contract



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Sonnenschein A600

Notes

A large, empty grid area for taking notes, consisting of many small squares. The grid is approximately 30 columns wide and 60 rows high, providing ample space for handwritten or typed notes.



Exide Technologies, with operations in more than **80 countries**, is one of the world's largest producers and recyclers of lead-acid batteries. Exide Technologies provides a comprehensive and customized range of stored electrical energy solutions. Based on **over 100 years of experience** in the development of innovative technologies, Exide Technologies is an esteemed partner of OEMs and serves the spare parts market for industrial and transportation applications.

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