

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 | XP-FT | GP/GX | 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 100 – 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
- > Blocks in compliance with DIN 40 744
- > 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
100 – 3286 Ah



Block battery /
single cell



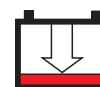
Tubular plate



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 Vpc 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 | NGA6020225HS0FA | 4 OPzV 200 ¹ | 2 | 224 | 105 | 208 | 357 | 399 | 19.0 | 0.95 | 2200 | F-M8 | 1 |
| A602/280 | NGA6020280HS0FA | 5 OPzV 250 ¹ | 2 | 280 | 126 | 208 | 357 | 399 | 23.0 | 0.79 | 2700 | F-M8 | 1 |
| A602/335 | NGA6020335HS0FA | 6 OPzV 300 ¹ | 2 | 337 | 147 | 208 | 357 | 399 | 27.0 | 0.61 | 3350 | F-M8 | 1 |
| A602/415 | NGA6020415HS0FA | 5 OPzV 350 ¹ | 2 | 416 | 126 | 208 | 473 | 515 | 30.0 | 0.62 | 3300 | F-M8 | 1 |
| A602/500 | NGA6020500HS0FA | 6 OPzV 420 ¹ | 2 | 499 | 147 | 208 | 473 | 515 | 35.0 | 0.53 | 3950 | F-M8 | 1 |
| A602/580 | NGA6020580HS0FA | 7 OPzV 490 ¹ | 2 | 582 | 168 | 208 | 473 | 515 | 39.0 | 0.47 | 4400 | F-M8 | 1 |
| A602/750 | NGA6020750HS0FA | 6 OPzV 600 ¹ | 2 | 748 | 147 | 208 | 648 | 690 | 49.0 | 0.48 | 4300 | F-M8 | 1 |
| A602/1010 | NGA6021010HS0FA | 8 OPzV 800 ¹ | 2 | 998 | 212 | 193 | 648 | 690 | 66.0 | 0.38 | 4850 | F-M8 | 2 |
| A602/1250 | NGA6021250HS0FA | 10 OPzV 1000 ¹ | 2 | 1248 | 212 | 235 | 648 | 690 | 80.0 | 0.33 | 6250 | F-M8 | 2 |
| A602/1510 | NGA6021510HS0FA | 12 OPzV 1200 ¹ | 2 | 1497 | 212 | 277 | 648 | 690 | 95.0 | 0.29 | 7850 | F-M8 | 2 |
| A602/1650C | NGA6021650HS0FA | 12 OPzV 1500 ¹ | 2 | 1643 | 212 | 277 | 717 | 759 | 115 | 0.23 | 9000 | F-M8 | 2 |
| A602/2200 | NGA6022200HS0FA | 16 OPzV 2000 ¹ | 2 | 2190 | 216 | 400 | 775 | 816 | 160 | 0.19 | 10750 | F-M8 | 3 |
| A602/2740 | NGA6022740HS0FA | 20 OPzV 2500 ¹ | 2 | 2738 | 214 | 489 | 774 | 816 | 198 | 0.16 | 13400 | F-M8 | 4 |
| A602/3300 | NGA6023300HS0FA | 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 | 200 | 272 | 206 | 323 | 347 | 43.0 | 2.71 | 1707 | F-M8 | 1 |
| A606/300 | NGA6060300HS0FB | 6V 6 OPzV 300 ² | 6 | 300 | 380 | 206 | 323 | 347 | 62.0 | 1.90 | 2614 | F-M8 | 1 |
| A612/100 | NGA6120100HS0FB | 12V 2 OPzV 100 ² | 12 | 100 | 272 | 206 | 323 | 347 | 43.0 | 9.68 | 1934 | F-M8 | 1 |
| A612/150 | NGA6120150HS0FB | 12V 3 OPzV 150 ² | 12 | 150 | 380 | 206 | 323 | 347 | 63.0 | 6.43 | 2896 | F-M8 | 1 |

*includes installed connector

Approval, container, terminal and torque

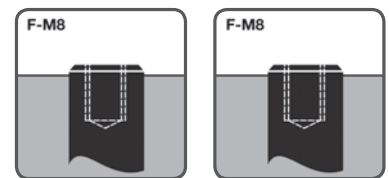
> Approval:

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.:

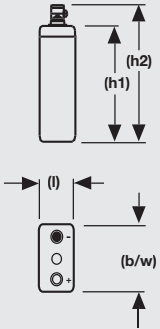
> **Standard:** NGA6120100 H S0FB

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

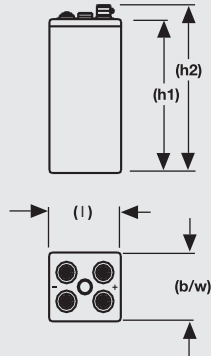
Sonnenschein A600

Drawings

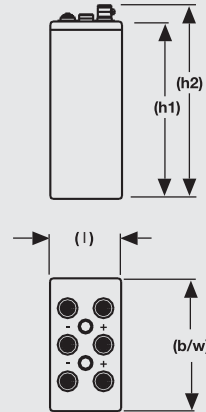
**A602/225 -
A602/750**



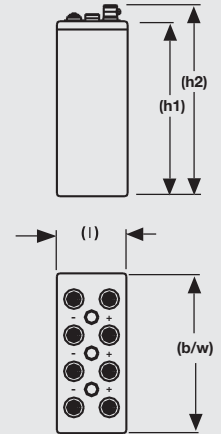
**A602/1010 -
A602/1650C**



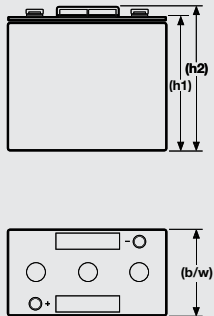
A602/2200



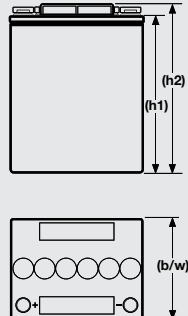
**A602/2740 -
A602/3300**



**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 | 171 | 157 | 145 | 120 | 89.1 | 59.3 | 45.1 | 36.8 | 31.3 | 22.0 | 18.6 |
| A606/300 | NGA6060300HS0FB | 252 | 233 | 217 | 181 | 136 | 91.2 | 69.2 | 56.2 | 47.6 | 33.1 | 27.8 |
| A612/100 | NGA6120100HS0FB | 95.3 | 87.6 | 81.0 | 66.0 | 47.7 | 30.9 | 23.2 | 18.8 | 15.9 | 11.1 | 9.30 |
| A612/150 | NGA6120150HS0FB | 143 | 132 | 122 | 99.8 | 71.5 | 45.9 | 34.4 | 27.9 | 23.6 | 16.6 | 14.0 |

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 | 187 | 172 | 139 | 100 | 64.8 | 48.6 | 39.3 | 33.3 | 23.2 | 19.5 |
| A606/300 | NGA6060300HS0FB | 298 | 273 | 253 | 208 | 153 | 99.9 | 74.8 | 60.2 | 50.7 | 35.0 | 29.2 |
| A612/100 | NGA6120100HS0FB | 113 | 103 | 95.2 | 76.3 | 53.5 | 33.6 | 24.9 | 20.0 | 16.9 | 11.7 | 9.80 |
| A612/150 | NGA6120150HS0FB | 171 | 157 | 145 | 115 | 80.1 | 49.7 | 36.8 | 29.6 | 25.0 | 17.4 | 14.7 |

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 | 209 | 192 | 152 | 107 | 67.9 | 50.5 | 40.7 | 34.3 | 23.8 | 20.0 |
| A606/300 | NGA6060300HS0FB | 332 | 303 | 280 | 228 | 164 | 105 | 78.0 | 62.5 | 52.4 | 36.0 | 30.0 |
| A612/100 | NGA6120100HS0FB | 126 | 115 | 105 | 83.4 | 57.0 | 34.9 | 25.6 | 20.5 | 17.3 | 11.9 | 10.0 |
| A612/150 | NGA6120150HS0FB | 192 | 176 | 161 | 126 | 85.1 | 51.7 | 38.0 | 30.5 | 25.7 | 17.9 | 15.0 |

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 | 274 | 246 | 223 | 172 | 116 | 71.5 | 52.7 | 42.2 | 35.5 | 24.5 | 20.5 |
| A606/300 | NGA6060300HS0FB | 389 | 353 | 324 | 258 | 180 | 111 | 81.8 | 65.1 | 54.4 | 37.1 | 30.9 |
| A612/100 | NGA6120100HS0FB | 148 | 134 | 122 | 93.6 | 60.7 | 36.0 | 26.2 | 21.0 | 17.6 | 12.1 | 10.2 |
| A612/150 | NGA6120150HS0FB | 227 | 207 | 188 | 142 | 90.9 | 53.7 | 39.1 | 31.3 | 26.3 | 18.2 | 15.3 |

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 | 317 | 281 | 251 | 187 | 122 | 73.6 | 53.9 | 43.0 | 36.1 | 24.9 | 20.8 |
| A606/300 | NGA6060300HS0FB | 447 | 402 | 366 | 284 | 191 | 115 | 84.1 | 66.6 | 55.5 | 37.7 | 31.3 |
| A612/100 | NGA6120100HS0FB | 171 | 153 | 138 | 101 | 62.5 | 36.4 | 26.5 | 21.1 | 17.7 | 12.2 | 10.2 |
| A612/150 | NGA6120150HS0FB | 262 | 236 | 212 | 153 | 94.2 | 54.6 | 39.7 | 31.6 | 26.6 | 18.4 | 15.5 |

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 | 359 | 313 | 276 | 198 | 126 | 74.8 | 54.5 | 43.5 | 36.4 | 25.1 | 20.9 |
| A606/300 | NGA6060300HS0FB | 504 | 449 | 405 | 305 | 199 | 118 | 85.4 | 67.5 | 56.1 | 38.0 | 31.6 |
| A612/100 | NGA6120100HS0FB | 193 | 172 | 152 | 105 | 63.1 | 36.6 | 26.5 | 21.1 | 17.7 | 12.2 | 10.2 |
| A612/150 | NGA6120150HS0FB | 297 | 265 | 234 | 161 | 95.8 | 55.1 | 39.9 | 31.8 | 26.7 | 18.5 | 15.5 |

1.60 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 | 399 | 343 | 297 | 206 | 128 | 75.5 | 54.9 | 43.7 | 36.6 | 25.2 | 21.0 |
| A606/300 | NGA6060300HS0FB | 560 | 494 | 439 | 320 | 203 | 119 | 86.1 | 67.9 | 56.5 | 38.2 | 31.7 |
| A612/100 | NGA6120100HS0FB | 215 | 188 | 163 | 107 | 63.3 | 36.6 | 26.6 | 21.2 | 17.8 | 12.2 | 10.2 |
| A612/150 | NGA6120150HS0FB | 331 | 292 | 253 | 165 | 96.6 | 55.3 | 40.0 | 31.9 | 26.8 | 18.5 | 15.6 |

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 | NGA6020225HSOFA | 144 | 126 | 107 | 76.2 | 59.6 | 45.7 | 31.2 | 21.4 | 18.3 |
| A602/280 | NGA6020280HSOFA | 180 | 158 | 134 | 95.3 | 74.5 | 57.1 | 39.0 | 26.8 | 22.9 |
| A602/335 | NGA6020335HSOFA | 216 | 189 | 161 | 114 | 89.4 | 68.6 | 46.8 | 32.1 | 22.5 |
| A602/415 | NGA6020415HSOFA | 244 | 231 | 187 | 143 | 112 | 90.0 | 65.3 | 44.8 | 36.7 |
| A602/500 | NGA6020500HSOFA | 293 | 277 | 224 | 172 | 134 | 108 | 78.4 | 53.8 | 44.0 |
| A602/580 | NGA6020580HSOFA | 342 | 323 | 262 | 200 | 157 | 126 | 91.4 | 62.7 | 51.4 |
| A602/750 | NGA6020750HSOFA | 270 | 258 | 243 | 214 | 167 | 138 | 102 | 71.9 | 60.3 |
| A602/1010 | NGA6021010HSOFA | 360 | 344 | 324 | 285 | 223 | 184 | 136 | 95.9 | 80.4 |
| A602/1250 | NGA6021250HSOFA | 450 | 430 | 405 | 357 | 278 | 230 | 171 | 120 | 101 |
| A602/1510 | NGA6021510HSOFA | 517 | 516 | 486 | 428 | 334 | 276 | 205 | 144 | 121 |
| A602/1650C | NGA6021650HSOFA | 518 | 518 | 507 | 420 | 312 | 261 | 205 | 155 | 129 |
| A602/2200 | NGA6022200HSOFA | 691 | 669 | 639 | 581 | 469 | 381 | 284 | 207 | 172 |
| A602/2740 | NGA6022740HSOFA | 863 | 837 | 798 | 727 | 587 | 477 | 355 | 259 | 216 |
| A602/3300 | NGA6023300HSOFA | 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 | NGA6020225HSOFA | 173 | 156 | 124 | 83.9 | 64.7 | 49.5 | 34.7 | 24.2 | 20.5 |
| A602/280 | NGA6020280HSOFA | 216 | 195 | 155 | 105 | 80.9 | 61.9 | 43.4 | 30.3 | 25.6 |
| A602/335 | NGA6020335HSOFA | 260 | 234 | 186 | 126 | 97.1 | 74.3 | 52.1 | 36.3 | 30.8 |
| A602/415 | NGA6020415HSOFA | 308 | 284 | 223 | 163 | 119 | 96.6 | 69.4 | 47.8 | 39.6 |
| A602/500 | NGA6020500HSOFA | 370 | 341 | 268 | 196 | 143 | 116 | 83.3 | 57.4 | 47.5 |
| A602/580 | NGA6020580HSOFA | 431 | 398 | 313 | 228 | 167 | 135 | 97.2 | 66.9 | 55.4 |
| A602/750 | NGA6020750HSOFA | 340 | 327 | 305 | 248 | 190 | 154 | 113 | 78.0 | 64.5 |
| A602/1010 | NGA6021010HSOFA | 453 | 436 | 407 | 331 | 253 | 205 | 150 | 104 | 86.0 |
| A602/1250 | NGA6021250HSOFA | 567 | 545 | 508 | 413 | 317 | 257 | 188 | 130 | 108 |
| A602/1510 | NGA6021510HSOFA | 623 | 623 | 610 | 496 | 380 | 308 | 226 | 156 | 129 |
| A602/1650C | NGA6021650HSOFA | 624 | 624 | 615 | 548 | 380 | 319 | 227 | 167 | 139 |
| A602/2200 | NGA6022200HSOFA | 832 | 817 | 793 | 632 | 520 | 437 | 313 | 223 | 185 |
| A602/2740 | NGA6022740HSOFA | 1040 | 1022 | 992 | 790 | 650 | 547 | 391 | 278 | 231 |
| A602/3300 | NGA6023300HSOFA | 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 | NGA6020225HSOFA | 194 | 171 | 137 | 90.0 | 68.1 | 52.0 | 36.3 | 25.2 | 21.3 |
| A602/280 | NGA6020280HSOFA | 243 | 214 | 171 | 113 | 85.1 | 65.0 | 45.4 | 31.5 | 26.6 |
| A602/335 | NGA6020335HSOFA | 291 | 257 | 206 | 135 | 102 | 78.0 | 54.5 | 37.8 | 32.0 |
| A602/415 | NGA6020415HSOFA | 332 | 308 | 249 | 176 | 124 | 101 | 71.3 | 49.1 | 40.0 |
| A602/500 | NGA6020500HSOFA | 398 | 370 | 299 | 211 | 149 | 121 | 85.6 | 58.9 | 48.5 |
| A602/580 | NGA6020580HSOFA | 465 | 431 | 349 | 246 | 174 | 141 | 100 | 68.7 | 56.6 |
| A602/750 | NGA6020750HSOFA | 389 | 368 | 336 | 269 | 202 | 165 | 119 | 82.1 | 67.6 |
| A602/1010 | NGA6021010HSOFA | 519 | 491 | 448 | 359 | 269 | 220 | 159 | 109 | 90.1 |
| A602/1250 | NGA6021250HSOFA | 648 | 613 | 560 | 448 | 337 | 275 | 199 | 137 | 113 |
| A602/1510 | NGA6021510HSOFA | 701 | 701 | 672 | 538 | 404 | 330 | 238 | 164 | 135 |
| A602/1650C | NGA6021650HSOFA | 702 | 702 | 683 | 597 | 431 | 339 | 252 | 181 | 150 |
| A602/2200 | NGA6022200HSOFA | 1031 | 972 | 864 | 680 | 555 | 463 | 335 | 241 | 200 |
| A602/2740 | NGA6022740HSOFA | 1288 | 1215 | 1080 | 850 | 693 | 578 | 419 | 302 | 249 |
| A602/3300 | NGA6023300HSOFA | 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 | NGA6020225HSOFA | 209 | 182 | 148 | 97.7 | 71.4 | 54.9 | 38.0 | 26.2 | 22.0 |
| A602/280 | NGA6020280HSOFA | 261 | 228 | 185 | 122 | 89.3 | 68.6 | 47.5 | 32.8 | 27.5 |
| A602/335 | NGA6020335HSOFA | 314 | 273 | 222 | 147 | 107 | 82.4 | 57.0 | 39.3 | 33.0 |
| A602/415 | NGA6020415HSOFA | 350 | 337 | 265 | 187 | 130 | 104 | 72.9 | 49.8 | 40.9 |
| A602/500 | NGA6020500HSOFA | 420 | 404 | 318 | 224 | 156 | 125 | 87.5 | 59.8 | 49.1 |
| A602/580 | NGA6020580HSOFA | 490 | 472 | 371 | 262 | 182 | 146 | 102 | 69.7 | 57.3 |
| A602/750 | NGA6020750HSOFA | 421 | 404 | 365 | 290 | 216 | 175 | 125 | 86.3 | 70.4 |
| A602/1010 | NGA6021010HSOFA | 561 | 539 | 487 | 387 | 288 | 233 | 167 | 115 | 93.9 |
| A602/1250 | NGA6021250HSOFA | 702 | 673 | 608 | 483 | 360 | 292 | 208 | 144 | 117 |
| A602/1510 | NGA6021510HSOFA | 755 | 755 | 716 | 580 | 432 | 350 | 250 | 173 | 141 |
| A602/1650C | NGA6021650HSOFA | 756 | 756 | 717 | 645 | 480 | 374 | 268 | 190 | 157 |
| A602/2200 | NGA6022200HSOFA | 1123 | 1077 | 944 | 733 | 589 | 497 | 358 | 254 | 210 |
| A602/2740 | NGA6022740HSOFA | 1403 | 1347 | 1180 | 917 | 737 | 622 | 447 | 317 | 262 |
| A602/3300 | NGA6023300HSOFA | 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 | NGA6020225HSOFA | 232 | 196 | 162 | 106 | 75.6 | 58.0 | 39.2 | 26.6 | 22.4 |
| A602/280 | NGA6020280HSOFA | 290 | 245 | 203 | 133 | 94.5 | 72.5 | 49.0 | 33.3 | 28.0 |
| A602/335 | NGA6020335HSOFA | 348 | 294 | 243 | 159 | 113 | 87.0 | 58.8 | 39.9 | 33.7 |
| A602/415 | NGA6020415HSOFA | 397 | 364 | 280 | 201 | 135 | 107 | 75.1 | 50.8 | 41.6 |
| A602/500 | NGA6020500HSOFA | 476 | 437 | 336 | 241 | 162 | 128 | 90.1 | 61.0 | 49.9 |
| A602/580 | NGA6020580HSOFA | 556 | 510 | 392 | 281 | 189 | 149 | 105 | 71.1 | 58.2 |
| A602/750 | NGA6020750HSOFA | 478 | 458 | 388 | 314 | 228 | 182 | 131 | 90.5 | 74.8 |
| A602/1010 | NGA6021010HSOFA | 637 | 611 | 517 | 419 | 304 | 243 | 175 | 121 | 99.8 |
| A602/1250 | NGA6021250HSOFA | 797 | 763 | 647 | 523 | 380 | 303 | 218 | 151 | 125 |
| A602/1510 | NGA6021510HSOFA | 858 | 858 | 776 | 628 | 456 | 364 | 262 | 181 | 150 |
| A602/1650C | NGA6021650HSOFA | 859 | 859 | 808 | 694 | 526 | 410 | 287 | 199 | 164 |
| A602/2200 | NGA6022200HSOFA | 1279 | 1197 | 1076 | 863 | 657 | 531 | 378 | 266 | 219 |
| A602/2740 | NGA6022740HSOFA | 1598 | 1497 | 1345 | 1078 | 822 | 663 | 473 | 332 | 274 |
| A602/3300 | NGA6023300HSOFA | 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 | NGA6020225HSOFA | 265 | 229 | 182 | 115 | 79.9 | 60.3 | 39.8 | 27.0 | 22.6 |
| A602/280 | NGA6020280HSOFA | 331 | 286 | 228 | 144 | 100 | 75.4 | 49.8 | 33.8 | 28.3 |
| A602/335 | NGA6020335HSOFA | 398 | 344 | 273 | 173 | 120 | 90.5 | 59.7 | 40.5 | 33.9 |
| A602/415 | NGA6020415HSOFA | 423 | 389 | 300 | 215 | 139 | 109 | 76.6 | 51.8 | 42.6 |
| A602/500 | NGA6020500HSOFA | 508 | 467 | 360 | 258 | 167 | 131 | 91.9 | 62.2 | 51.1 |
| A602/580 | NGA6020580HSOFA | 592 | 545 | 420 | 301 | 195 | 153 | 107 | 72.5 | 59.6 |
| A602/750 | NGA6020750HSOFA | 561 | 534 | 463 | 354 | 240 | 190 | 135 | 92.2 | 75.9 |
| A602/1010 | NGA6021010HSOFA | 748 | 712 | 617 | 472 | 320 | 253 | 180 | 123 | 101 |
| A602/1250 | NGA6021250HSOFA | 935 | 890 | 772 | 590 | 400 | 317 | 225 | 154 | 127 |
| A602/1510 | NGA6021510HSOFA | 1048 | 1048 | 926 | 708 | 480 | 380 | 269 | 184 | 152 |
| A602/1650C | NGA6021650HSOFA | 1049 | 1049 | 982 | 777 | 585 | 452 | 309 | 209 | 172 |
| A602/2200 | NGA6022200HSOFA | 1356 | 1313 | 1237 | 1012 | 712 | 567 | 397 | 278 | 229 |
| A602/2740 | NGA6022740HSOFA | 1695 | 1642 | 1547 | 1265 | 890 | 708 | 496 | 348 | 287 |
| A602/3300 | NGA6023300HSOFA | 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 | NGA6020225HSOFA | 290 | 258 | 201 | 120 | 81.6 | 60.8 | 40.2 | 27.3 | 22.7 |
| A602/280 | NGA6020280HSOFA | 363 | 323 | 251 | 150 | 102 | 76.0 | 50.3 | 34.1 | 28.4 |
| A602/335 | NGA6020335HSOFA | 435 | 387 | 302 | 180 | 122 | 91.2 | 60.3 | 41.0 | 34.1 |
| A602/415 | NGA6020415HSOFA | 468 | 425 | 334 | 220 | 142 | 111 | 78.2 | 52.4 | 43.0 |
| A602/500 | NGA6020500HSOFA | 562 | 510 | 401 | 264 | 170 | 133 | 93.8 | 62.9 | 51.6 |
| A602/580 | NGA6020580HSOFA | 655 | 595 | 468 | 308 | 199 | 155 | 109 | 73.4 | 60.2 |
| A602/750 | NGA6020750HSOFA | 639 | 615 | 527 | 388 | 252 | 195 | 136 | 92.7 | 76.4 |
| A602/1010 | NGA6021010HSOFA | 852 | 820 | 703 | 517 | 336 | 260 | 181 | 124 | 102 |
| A602/1250 | NGA6021250HSOFA | 1065 | 1025 | 878 | 647 | 420 | 325 | 226 | 155 | 127 |
| A602/1510 | NGA6021510HSOFA | 1267 | 1230 | 1054 | 776 | 504 | 390 | 271 | 185 | 153 |
| A602/1650C | NGA6021650HSOFA | 1268 | 1260 | 1135 | 903 | 623 | 479 | 322 | 222 | 176 |
| A602/2200 | NGA6022200HSOFA | 1557 | 1480 | 1365 | 1140 | 753 | 580 | 406 | 285 | 234 |
| A602/2740 | NGA6022740HSOFA | 1947 | 1850 | 1707 | 1425 | 942 | 725 | 507 | 356 | 293 |
| A602/3300 | NGA6023300HSOFA | 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 | NGA6020225HSOFA | 314 | 278 | 212 | 122 | 82.5 | 61.0 | 40.4 | 27.5 | 22.8 |
| A602/280 | NGA6020280HSOFA | 393 | 348 | 265 | 153 | 103 | 76.3 | 50.5 | 34.4 | 28.5 |
| A602/335 | NGA6020335HSOFA | 471 | 417 | 318 | 183 | 124 | 91.5 | 60.6 | 41.3 | 34.2 |
| A602/415 | NGA6020415HSOFA | 488 | 458 | 354 | 230 | 144 | 112 | 79.3 | 52.8 | 43.4 |
| A602/500 | NGA6020500HSOFA | 586 | 550 | 425 | 276 | 173 | 134 | 95.2 | 63.4 | 52.1 |
| A602/580 | NGA6020580HSOFA | 683 | 641 | 496 | 322 | 202 | 157 | 111 | 73.9 | 60.8 |
| A602/750 | NGA6020750HSOFA | 715 | 696 | 583 | 411 | 255 | 197 | 136 | 93.2 | 76.8 |
| A602/1010 | NGA6021010HSOFA | 953 | 928 | 777 | 548 | 340 | 262 | 182 | 124 | 102 |
| A602/1250 | NGA6021250HSOFA | 1192 | 1160 | 972 | 685 | 425 | 328 | 227 | 155 | 128 |
| A602/1510 | NGA6021510HSOFA | 1430 | 1392 | 1166 | 822 | 510 | 394 | 272 | 186 | 154 |
| A602/1650C | NGA6021650HSOFA | 1463 | 1446 | 1249 | 960 | 645 | 491 | 328 | 225 | 178 |
| A602/2200 | NGA6022200HSOFA | 1760 | 1608 | 1476 | 1208 | 777 | 596 | 413 | 289 | 238 |
| A602/2740 | NGA6022740HSOFA | 2200 | 2010 | 1845 | 1510 | 972 | 745 | 516 | 361 | 297 |
| A602/3300 | NGA6023300HSOFA | 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 | NGA6020225HSOFA | 326 | 300 | 222 | 123 | 82.8 | 61.2 | 40.6 | 27.6 | 22.9 |
| A602/280 | NGA6020280HSOFA | 408 | 375 | 278 | 154 | 104 | 76.5 | 50.8 | 34.5 | 28.6 |
| A602/335 | NGA6020335HSOFA | 489 | 450 | 333 | 185 | 124 | 91.8 | 60.9 | 41.4 | 34.4 |
| A602/415 | NGA6020415HSOFA | 500 | 478 | 382 | 238 | 146 | 113 | 80.2 | 53.2 | 43.8 |
| A602/500 | NGA6020500HSOFA | 600 | 574 | 458 | 286 | 175 | 136 | 96.2 | 63.8 | 52.6 |
| A602/580 | NGA6020580HSOFA | 700 | 669 | 535 | 333 | 204 | 158 | 112 | 74.5 | 61.3 |
| A602/750 | NGA6020750HSOFA | 786 | 767 | 632 | 429 | 260 | 198 | 137 | 93.6 | 77.2 |
| A602/1010 | NGA6021010HSOFA | 1048 | 1023 | 843 | 572 | 347 | 264 | 182 | 125 | 103 |
| A602/1250 | NGA6021250HSOFA | 1310 | 1278 | 1053 | 715 | 433 | 330 | 228 | 156 | 129 |
| A602/1510 | NGA6021510HSOFA | 1572 | 1534 | 1264 | 858 | 520 | 396 | 273 | 187 | 154 |
| A602/1650C | NGA6021650HSOFA | 1604 | 1480 | 1295 | 992 | 662 | 497 | 332 | 226 | 180 |
| A602/2200 | NGA6022200HSOFA | 2059 | 1872 | 1664 | 1267 | 807 | 607 | 417 | 292 | 240 |
| A602/2740 | NGA6022740HSOFA | 2573 | 2340 | 2080 | 1583 | 1008 | 758 | 522 | 365 | 300 |
| A602/3300 | NGA6023300HSOFA | 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 | NGA6020225HSOFA | 265 | 258 | 248 | 236 | 219 | 197 | 158 | 122 | 101 | 83.2 | 69.6 |
| A602/280 | NGA6020280HSOFA | 331 | 323 | 310 | 295 | 274 | 246 | 198 | 153 | 126 | 104 | 87.0 |
| A602/335 | NGA6020335HSOFA | 398 | 387 | 372 | 354 | 329 | 296 | 237 | 183 | 152 | 125 | 104 |
| A602/415 | NGA6020415HSOFA | 481 | 473 | 463 | 410 | 384 | 343 | 273 | 205 | 158 | 130 | 111 |
| A602/500 | NGA6020500HSOFA | 577 | 568 | 556 | 492 | 461 | 412 | 328 | 246 | 190 | 156 | 133 |
| A602/580 | NGA6020580HSOFA | 673 | 662 | 648 | 574 | 538 | 480 | 382 | 287 | 221 | 182 | 155 |
| A602/750 | NGA6020750HSOFA | 743 | 683 | 588 | 535 | 513 | 495 | 436 | 357 | 294 | 248 | 211 |
| A602/1010 | NGA6021010HSOFA | 991 | 911 | 784 | 713 | 684 | 660 | 581 | 476 | 392 | 331 | 281 |
| A602/1250 | NGA6021250HSOFA | 1019 | 1019 | 980 | 892 | 855 | 825 | 727 | 595 | 490 | 413 | 352 |
| A602/1510 | NGA6021510HSOFA | 1020 | 1020 | 1020 | 1020 | 1020 | 990 | 872 | 714 | 588 | 496 | 422 |
| A602/1650C | NGA6021650HSOFA | 1021 | 1021 | 1021 | 1021 | 1021 | 1021 | 765 | 598 | 513 | 461 | 415 |
| A602/2200 | NGA6022200HSOFA | 1411 | 1399 | 1373 | 1344 | 1323 | 1287 | 1152 | 908 | 732 | 596 | 511 |
| A602/2740 | NGA6022740HSOFA | 1763 | 1748 | 1717 | 1680 | 1653 | 1608 | 1440 | 1135 | 915 | 745 | 638 |
| A602/3300 | NGA6023300HSOFA | 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 | NGA6020225HSOFA | 315 | 300 | 289 | 270 | 255 | 229 | 172 | 130 | 107 | 90.4 | 76.9 |
| A602/280 | NGA6020280HSOFA | 394 | 375 | 361 | 338 | 319 | 286 | 215 | 163 | 134 | 113 | 96.1 |
| A602/335 | NGA6020335HSOFA | 473 | 450 | 434 | 405 | 383 | 344 | 258 | 195 | 161 | 136 | 115 |
| A602/415 | NGA6020415HSOFA | 534 | 509 | 485 | 445 | 418 | 375 | 302 | 223 | 180 | 146 | 121 |
| A602/500 | NGA6020500HSOFA | 641 | 611 | 582 | 534 | 502 | 450 | 362 | 268 | 216 | 175 | 145 |
| A602/580 | NGA6020580HSOFA | 748 | 713 | 679 | 623 | 585 | 525 | 423 | 312 | 252 | 204 | 169 |
| A602/750 | NGA6020750HSOFA | 772 | 757 | 712 | 648 | 636 | 592 | 495 | 395 | 328 | 276 | 229 |
| A602/1010 | NGA6021010HSOFA | 1029 | 1009 | 949 | 864 | 848 | 789 | 660 | 527 | 437 | 368 | 305 |
| A602/1250 | NGA6021250HSOFA | 1161 | 1161 | 1161 | 1080 | 1060 | 987 | 825 | 658 | 547 | 460 | 382 |
| A602/1510 | NGA6021510HSOFA | 1162 | 1162 | 1162 | 1162 | 1162 | 1162 | 990 | 790 | 656 | 552 | 458 |
| A602/1650C | NGA6021650HSOFA | 1163 | 1163 | 1163 | 1163 | 1163 | 1163 | 997 | 769 | 632 | 523 | 442 |
| A602/2200 | NGA6022200HSOFA | 1523 | 1507 | 1467 | 1423 | 1396 | 1357 | 1251 | 1025 | 843 | 697 | 589 |
| A602/2740 | NGA6022740HSOFA | 1903 | 1883 | 1833 | 1778 | 1745 | 1697 | 1563 | 1282 | 1053 | 872 | 737 |
| A602/3300 | NGA6023300HSOFA | 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 | NGA6020225HSOFA | 343 | 326 | 305 | 290 | 270 | 246 | 181 | 134 | 111 | 94.6 | 80.0 |
| A602/280 | NGA6020280HSOFA | 429 | 408 | 381 | 363 | 338 | 308 | 226 | 168 | 139 | 118 | 100 |
| A602/335 | NGA6020335HSOFA | 515 | 489 | 458 | 435 | 405 | 369 | 272 | 201 | 167 | 142 | 120 |
| A602/415 | NGA6020415HSOFA | 612 | 569 | 528 | 489 | 457 | 401 | 323 | 234 | 188 | 153 | 128 |
| A602/500 | NGA6020500HSOFA | 734 | 683 | 634 | 587 | 548 | 481 | 388 | 281 | 226 | 184 | 154 |
| A602/580 | NGA6020580HSOFA | 857 | 797 | 739 | 685 | 640 | 561 | 452 | 328 | 263 | 214 | 179 |
| A602/750 | NGA6020750HSOFA | 798 | 772 | 748 | 696 | 686 | 643 | 523 | 410 | 343 | 288 | 240 |
| A602/1010 | NGA6021010HSOFA | 1064 | 1029 | 997 | 928 | 915 | 857 | 697 | 547 | 457 | 384 | 320 |
| A602/1250 | NGA6021250HSOFA | 1264 | 1264 | 1247 | 1160 | 1143 | 1072 | 872 | 683 | 572 | 480 | 400 |
| A602/1510 | NGA6021510HSOFA | 1265 | 1265 | 1265 | 1265 | 1265 | 1238 | 1046 | 820 | 686 | 576 | 480 |
| A602/1650C | NGA6021650HSOFA | 1266 | 1266 | 1266 | 1266 | 1266 | 1239 | 1102 | 797 | 635 | 539 | 484 |
| A602/2200 | NGA6022200HSOFA | 1673 | 1653 | 1587 | 1520 | 1467 | 1403 | 1301 | 1101 | 916 | 757 | 639 |
| A602/2740 | NGA6022740HSOFA | 2092 | 2067 | 1983 | 1900 | 1833 | 1753 | 1627 | 1377 | 1145 | 947 | 798 |
| A602/3300 | NGA6023300HSOFA | 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 | NGA6020225HSOFA | 357 | 342 | 331 | 305 | 290 | 265 | 189 | 137 | 114 | 96.7 | 82.1 |
| A602/280 | NGA6020280HSOFA | 446 | 428 | 414 | 381 | 363 | 331 | 236 | 171 | 143 | 121 | 103 |
| A602/335 | NGA6020335HSOFA | 536 | 513 | 497 | 458 | 435 | 398 | 284 | 206 | 171 | 145 | 123 |
| A602/415 | NGA6020415HSOFA | 636 | 603 | 561 | 520 | 491 | 431 | 341 | 242 | 196 | 159 | 134 |
| A602/500 | NGA6020500HSOFA | 763 | 724 | 673 | 624 | 589 | 517 | 409 | 290 | 235 | 191 | 161 |
| A602/580 | NGA6020580HSOFA | 890 | 844 | 785 | 728 | 687 | 603 | 477 | 339 | 274 | 223 | 188 |
| A602/750 | NGA6020750HSOFA | 856 | 819 | 790 | 748 | 732 | 698 | 550 | 424 | 357 | 300 | 249 |
| A602/1010 | NGA6021010HSOFA | 1141 | 1092 | 1053 | 997 | 976 | 931 | 733 | 565 | 476 | 400 | 332 |
| A602/1250 | NGA6021250HSOFA | 1374 | 1365 | 1317 | 1247 | 1220 | 1163 | 917 | 707 | 595 | 500 | 415 |
| A602/1510 | NGA6021510HSOFA | 1375 | 1375 | 1375 | 1360 | 1359 | 1316 | 1100 | 848 | 714 | 600 | 498 |
| A602/1650C | NGA6021650HSOFA | 1376 | 1376 | 1376 | 1361 | 1360 | 1317 | 1163 | 868 | 680 | 572 | 511 |
| A602/2200 | NGA6022200HSOFA | 1897 | 1867 | 1840 | 1717 | 1673 | 1517 | 1376 | 1149 | 965 | 807 | 681 |
| A602/2740 | NGA6022740HSOFA | 2372 | 2333 | 2300 | 2147 | 2092 | 1897 | 1720 | 1437 | 1207 | 1008 | 852 |
| A602/3300 | NGA6023300HSOFA | 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 | NGA6020225HSOFA | 393 | 367 | 358 | 335 | 309 | 283 | 199 | 140 | 117 | 100 | 84.2 |
| A602/280 | NGA6020280HSOFA | 491 | 459 | 448 | 419 | 386 | 354 | 249 | 175 | 146 | 125 | 105 |
| A602/335 | NGA6020335HSOFA | 590 | 551 | 537 | 503 | 464 | 425 | 299 | 210 | 176 | 150 | 126 |
| A602/415 | NGA6020415HSOFA | 710 | 669 | 603 | 572 | 540 | 480 | 368 | 252 | 201 | 166 | 140 |
| A602/500 | NGA6020500HSOFA | 852 | 803 | 724 | 686 | 648 | 576 | 442 | 302 | 241 | 199 | 168 |
| A602/580 | NGA6020580HSOFA | 994 | 937 | 844 | 801 | 756 | 672 | 515 | 353 | 281 | 232 | 196 |
| A602/750 | NGA6020750HSOFA | 964 | 939 | 888 | 833 | 810 | 782 | 597 | 439 | 372 | 314 | 263 |
| A602/1010 | NGA6021010HSOFA | 1285 | 1252 | 1184 | 1111 | 1080 | 1043 | 796 | 585 | 496 | 419 | 351 |
| A602/1250 | NGA6021250HSOFA | 1539 | 1539 | 1480 | 1388 | 1350 | 1303 | 995 | 732 | 620 | 523 | 438 |
| A602/1510 | NGA6021510HSOFA | 1540 | 1540 | 1540 | 1540 | 1540 | 1441 | 1189 | 878 | 744 | 628 | 526 |
| A602/1650C | NGA6021650HSOFA | 1541 | 1541 | 1541 | 1541 | 1541 | 1442 | 1190 | 961 | 746 | 619 | 538 |
| A602/2200 | NGA6022200HSOFA | 2171 | 2133 | 2072 | 1961 | 1903 | 1765 | 1541 | 1209 | 1024 | 867 | 728 |
| A602/2740 | NGA6022740HSOFA | 2713 | 2667 | 2590 | 2452 | 2378 | 2207 | 1927 | 1512 | 1280 | 1083 | 910 |
| A602/3300 | NGA6023300HSOFA | 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 | NGA6020225HSOFA | 454 | 442 | 410 | 390 | 352 | 312 | 211 | 144 | 121 | 102 | 87.3 |
| A602/280 | NGA6020280HSOFA | 568 | 553 | 513 | 488 | 440 | 390 | 264 | 180 | 151 | 128 | 109 |
| A602/335 | NGA6020335HSOFA | 681 | 663 | 615 | 585 | 528 | 468 | 317 | 216 | 182 | 153 | 131 |
| A602/415 | NGA6020415HSOFA | 764 | 743 | 676 | 624 | 600 | 526 | 398 | 265 | 206 | 171 | 143 |
| A602/500 | NGA6020500HSOFA | 917 | 892 | 811 | 749 | 720 | 631 | 478 | 318 | 247 | 205 | 171 |
| A602/580 | NGA6020580HSOFA | 1070 | 1040 | 946 | 874 | 840 | 736 | 557 | 371 | 288 | 239 | 200 |
| A602/750 | NGA6020750HSOFA | 1069 | 1048 | 1007 | 955 | 918 | 880 | 670 | 457 | 386 | 329 | 275 |
| A602/1010 | NGA6021010HSOFA | 1425 | 1397 | 1343 | 1273 | 1224 | 1173 | 893 | 609 | 515 | 439 | 367 |
| A602/1250 | NGA6021250HSOFA | 1782 | 1747 | 1678 | 1592 | 1530 | 1467 | 1117 | 762 | 643 | 548 | 458 |
| A602/1510 | NGA6021510HSOFA | 1817 | 1817 | 1817 | 1817 | 1817 | 1736 | 1340 | 914 | 772 | 658 | 550 |
| A602/1650C | NGA6021650HSOFA | 1818 | 1818 | 1818 | 1818 | 1818 | 1737 | 1341 | 1046 | 827 | 671 | 582 |
| A602/2200 | NGA6022200HSOFA | 2479 | 2459 | 2401 | 2224 | 2120 | 1985 | 1684 | 1268 | 1088 | 919 | 776 |
| A602/2740 | NGA6022740HSOFA | 3098 | 3073 | 3002 | 2780 | 2650 | 2482 | 2105 | 1585 | 1360 | 1148 | 970 |
| A602/3300 | NGA6023300HSOFA | 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 | NGA6020225HSOFA | 539 | 504 | 454 | 430 | 390 | 346 | 225 | 146 | 122 | 104 | 88.9 |
| A602/280 | NGA6020280HSOFA | 674 | 630 | 568 | 538 | 488 | 433 | 281 | 183 | 153 | 130 | 111 |
| A602/335 | NGA6020335HSOFA | 809 | 756 | 681 | 645 | 585 | 519 | 338 | 219 | 183 | 156 | 133 |
| A602/415 | NGA6020415HSOFA | 849 | 811 | 764 | 696 | 650 | 573 | 421 | 275 | 209 | 173 | 143 |
| A602/500 | NGA6020500HSOFA | 1019 | 973 | 917 | 835 | 780 | 688 | 505 | 330 | 251 | 207 | 172 |
| A602/580 | NGA6020580HSOFA | 1189 | 1135 | 1070 | 974 | 910 | 802 | 589 | 385 | 293 | 242 | 200 |
| A602/750 | NGA6020750HSOFA | 1208 | 1173 | 1120 | 1060 | 1006 | 960 | 725 | 479 | 395 | 338 | 279 |
| A602/1010 | NGA6021010HSOFA | 1611 | 1564 | 1493 | 1413 | 1341 | 1280 | 967 | 639 | 526 | 450 | 372 |
| A602/1250 | NGA6021250HSOFA | 2013 | 1955 | 1867 | 1767 | 1677 | 1600 | 1208 | 798 | 658 | 563 | 465 |
| A602/1510 | NGA6021510HSOFA | 2094 | 2094 | 2094 | 2051 | 2014 | 1844 | 1450 | 958 | 789 | 675 | 558 |
| A602/1650C | NGA6021650HSOFA | 2095 | 2095 | 2095 | 2052 | 2015 | 1845 | 1451 | 1101 | 873 | 704 | 595 |
| A602/2200 | NGA6022200HSOFA | 2627 | 2627 | 2572 | 2481 | 2400 | 2221 | 1801 | 1300 | 1112 | 943 | 800 |
| A602/2740 | NGA6022740HSOFA | 3283 | 3283 | 3215 | 3102 | 3000 | 2777 | 2252 | 1625 | 1390 | 1178 | 1000 |
| A602/3300 | NGA6023300HSOFA | 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 | NGA6020225HSOFA | 636 | 579 | 521 | 464 | 426 | 372 | 235 | 150 | 123 | 105 | 90.4 |
| A602/280 | NGA6020280HSOFA | 795 | 724 | 651 | 580 | 533 | 465 | 294 | 188 | 154 | 131 | 113 |
| A602/335 | NGA6020335HSOFA | 954 | 869 | 782 | 696 | 639 | 558 | 353 | 225 | 185 | 158 | 136 |
| A602/415 | NGA6020415HSOFA | 954 | 915 | 821 | 748 | 710 | 598 | 430 | 276 | 210 | 173 | 143 |
| A602/500 | NGA6020500HSOFA | 1145 | 1098 | 985 | 898 | 852 | 718 | 516 | 331 | 252 | 208 | 172 |
| A602/580 | NGA6020580HSOFA | 1336 | 1281 | 1149 | 1047 | 994 | 837 | 602 | 386 | 294 | 242 | 201 |
| A602/750 | NGA6020750HSOFA | 1386 | 1313 | 1243 | 1173 | 1110 | 1023 | 745 | 495 | 395 | 338 | 280 |
| A602/1010 | NGA6021010HSOFA | 1848 | 1751 | 1657 | 1564 | 1480 | 1364 | 993 | 660 | 527 | 451 | 373 |
| A602/1250 | NGA6021250HSOFA | 2310 | 2188 | 2072 | 1955 | 1850 | 1705 | 1242 | 825 | 658 | 563 | 467 |
| A602/1510 | NGA6021510HSOFA | 2368 | 2368 | 2318 | 2226 | 2151 | 1991 | 1490 | 990 | 790 | 676 | 560 |
| A602/1650C | NGA6021650HSOFA | 2369 | 2369 | 2319 | 2227 | 2151 | 1992 | 1555 | 1150 | 903 | 726 | 612 |
| A602/2200 | NGA6022200HSOFA | 2872 | 2811 | 2707 | 2629 | 2547 | 2408 | 1915 | 1373 | 1137 | 951 | 812 |
| A602/2740 | NGA6022740HSOFA | 3590 | 3513 | 3383 | 3287 | 3183 | 3010 | 2393 | 1717 | 1422 | 1188 | 1015 |
| A602/3300 | NGA6023300HSOFA | 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 | NGA6020225HSOFA | 671 | 620 | 588 | 506 | 459 | 381 | 240 | 152 | 124 | 105 | 90.4 |
| A602/280 | NGA6020280HSOFA | 839 | 775 | 735 | 633 | 574 | 476 | 300 | 190 | 155 | 131 | 113 |
| A602/335 | NGA6020335HSOFA | 1007 | 930 | 882 | 759 | 689 | 572 | 360 | 228 | 186 | 158 | 136 |
| A602/415 | NGA6020415HSOFA | 1017 | 967 | 906 | 790 | 738 | 624 | 436 | 277 | 210 | 173 | 144 |
| A602/500 | NGA6020500HSOFA | 1220 | 1160 | 1087 | 948 | 886 | 749 | 523 | 332 | 252 | 208 | 173 |
| A602/580 | NGA6020580HSOFA | 1424 | 1354 | 1268 | 1106 | 1033 | 874 | 610 | 388 | 294 | 243 | 201 |
| A602/750 | NGA6020750HSOFA | 1469 | 1442 | 1387 | 1272 | 1183 | 1048 | 765 | 502 | 395 | 338 | 280 |
| A602/1010 | NGA6021010HSOFA | 1959 | 1923 | 1849 | 1696 | 1577 | 1397 | 1020 | 669 | 527 | 451 | 374 |
| A602/1250 | NGA6021250HSOFA | 2448 | 2403 | 2312 | 2120 | 1972 | 1747 | 1275 | 837 | 659 | 564 | 467 |
| A602/1510 | NGA6021510HSOFA | 2643 | 2562 | 2376 | 2262 | 2195 | 2087 | 1530 | 1004 | 791 | 677 | 561 |
| A602/1650C | NGA6021650HSOFA | 2644 | 2563 | 2377 | 2263 | 2196 | 2088 | 1616 | 1174 | 915 | 736 | 620 |
| A602/2200 | NGA6022200HSOFA | 3259 | 3120 | 2800 | 2733 | 2667 | 2543 | 2005 | 1387 | 1141 | 961 | 819 |
| A602/2740 | NGA6022740HSOFA | 4073 | 3900 | 3500 | 3417 | 3333 | 3178 | 2507 | 1733 | 1427 | 1202 | 1023 |
| A602/3300 | NGA6023300HSOFA | 4888 | 4680 | 4200 | 4100 | 4000 | 3814 | 3008 | 2080 | 1712 | 1442 | 1228 |

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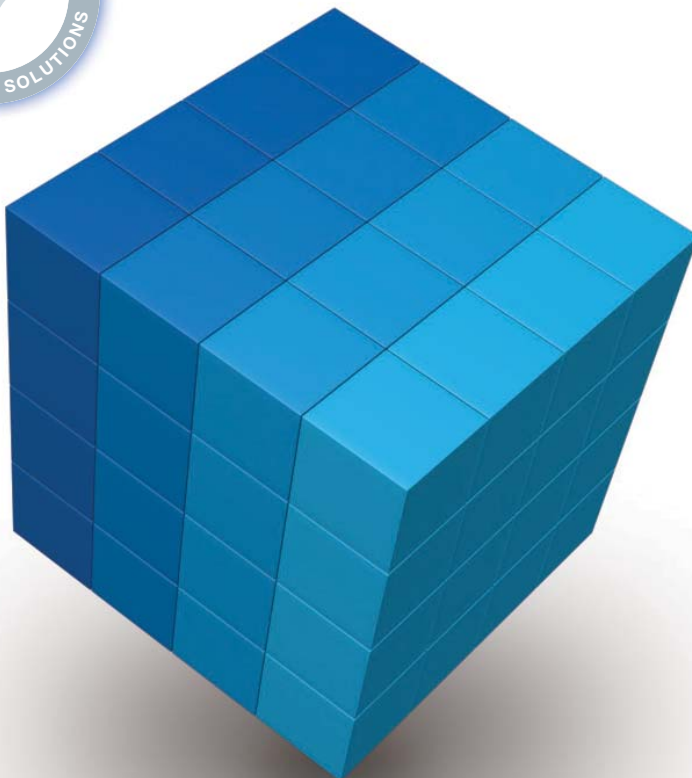
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