

Sprinter[®]



SPECIFICATIONS

Top Terminal Batteries

G N B

INDUSTRIAL POWER



From the World Leader in VRLA Battery Technology

Designed for superior, high-rate performance in uninterruptible power supply (UPS) applications, the GNB **SPRINTER** series offers high power density and reliability. The **SPRINTER** family of batteries highlights another example of GNB's extensive experience and world-wide leadership in VRLA technology.

"Designed in" Quality Manufacturing

Quality manufacturing processes for the **SPRINTER** series batteries incorporate the industry's most advanced technologies including: an automated helium leak detection system, a computer controlled "fill by weight" acid filler, and a temperature controlled water bath formation process. A constant current discharge test is performed on each and every unit prior to shipment.

High Performance **SPRINTER**® Series Features

- Standard: Reinforced polypropylene container and cover
- Optional: Flame-retardant reinforced container and cover compliant with UL94 V-0, 28% L.O.I.
- Integrated flame arrester ultrasonically welded into cover
- Patented "Diamond Side-Wall" design to maintain structural integrity in higher operating temperatures
- Heat sealed case-to-cover bond to ensure a leak proof seal
- High-Compression Absorbent Glass Mat (AGM) technology for greater than 99% recombination efficiency
- High-tin, calcium, silver, lead positive plate design for maximum service float life: 8 year design life @ 25°C (77°F); 10 year @ 20°C (68°F)
- Heavy duty copper alloy terminals for ease of assembly and reduced maintenance
- Reliable one-way, self-resealing safety vents

- Multicell design for faster installation and reduced maintenance
- Horizontal or vertical operation
- Removable carry handles for ease of installation

Applications

SPRINTER series batteries incorporate GNB's advanced VRLA technology designed for superior high-rate performance in uninterruptible power supply (UPS) and power quality applications.

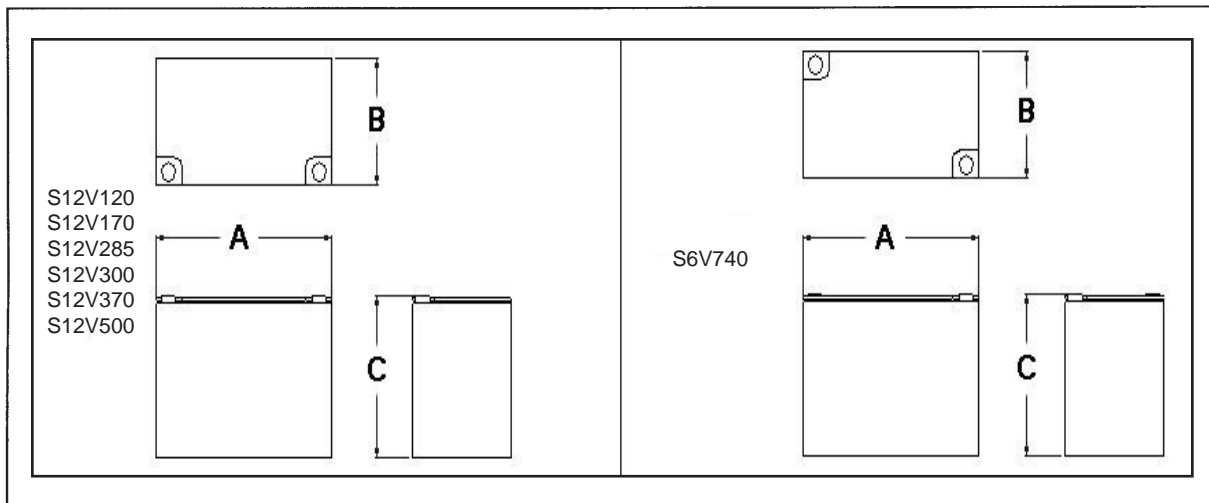


SPRINTER Specifications

| Model Number [#] | Voltage | Power (WPC) | | Nominal Dimensions | | | | | | Nominal Weight | |
|---------------------------|---------|----------------------------------|----------------------------------|--------------------|------|-------|-------------|-----|-----|----------------|------|
| | | 15 Min. To 1.67 VPC @ 25°C | 15 Min. To 1.67 VPC @ 20°C | Inches | | | Millimeters | | | lbs. | Kg |
| | | | | A | B | *C | A | B | *C | | |
| S12V120 | 12 | 117 | 111 | 6.82 | 6.58 | 5.89 | 173 | 167 | 150 | 27 | 12.1 |
| S12V170 | 12 | 167 | 158 | 7.81 | 6.58 | 7.01 | 198 | 167 | 178 | 36 | 16.4 |
| S12V285 | 12 | 285 | 270 | 10.25 | 6.85 | 8.80 | 260 | 174 | 224 | 61 | 27.8 |
| S12V300 | 12 | 306 | 290 | 10.25 | 6.85 | 8.80 | 260 | 174 | 224 | 63 | 28.7 |
| S12V370 | 12 | 373 | 353 | 12.05 | 6.85 | 8.80 | 306 | 174 | 224 | 74 | 33.4 |
| S12V500 | 12 | 505 | 478 | 13.55 | 6.76 | 10.90 | 344 | 172 | 277 | 106 | 48.1 |
| S6V740 | 6 | 746 | 706 | 12.05 | 6.85 | 8.80 | 306 | 174 | 224 | 74 | 33.4 |

* Bolt, washer, and connector typically increase height by 0.45 in. (11 mm)

Add suffix "F" to model number for flame retardant jar option



SPRINTER Electrical Data

| Model Number | Short Circuit Current | Internal Resistance (mOhms) |
|--------------|-----------------------|-----------------------------|
| S12V120 | 1865 | 6.6 |
| S12V170 | 2341 | 5.3 |
| S12V285 | 3271 | 3.7 |
| S12V300 | 3925 | 3.1 |
| S12V370 | 4266 | 2.9 |
| S12V500 | 4758 | 2.6 |
| S6V740 | 6831 | 0.9 |

Float Voltage & Charging

Constant Voltage charging is recommended

Recommended float voltage: 2.27 VPC @ 25°C (77°F)

Float Voltage Range: 2.25 to 2.30 VPC @ 25°C (77°F)

Equalize voltage: 2.35 VPC for 24 Hours



Sprinter Performance Specifications
Watts per Cell @25°C (77°F)

| | Model Number | Time | | | | | | | | |
|-------|--------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | 5 Min | 10 Min | 15 Min | 20 Min | 30 Min | 45 Min | 60 Min | 75 Min | 90 Min |
| | S12V120(F) | 246 | 154 | 119 | 98 | 73 | 53 | 42 | 35 | 30 |
| | S12V170(F) | 335 | 220 | 170 | 139 | 103 | 75 | 59 | 49 | 42 |
| 1.50 | S12v285(F) | 569 | 375 | 290 | 242 | 171 | 124 | 98 | 82 | 71 |
| Final | S12V300(F) | 692 | 424 | 310 | 249 | 183 | 134 | 107 | 90 | 77 |
| VPC | S12V370(F) | 753 | 490 | 378 | 311 | 232 | 168 | 132 | 109 | 93 |
| | S12V500(F) | 900 | 628 | 515 | 420 | 314 | 229 | 179 | 149 | 128 |
| | S6V740(F) | 1506 | 980 | 756 | 622 | 464 | 336 | 264 | 218 | 187 |

| | Model Number | Time | | | | | | | | |
|-------|--------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | 5 Min | 10 Min | 15 Min | 20 Min | 30 Min | 45 Min | 60 Min | 75 Min | 90 Min |
| | S12V120(F) | 244 | 153 | 118 | 97 | 72 | 52 | 41 | 34 | 29 |
| | S12V170(F) | 332 | 218 | 168 | 138 | 102 | 74 | 58 | 48 | 41 |
| 1.60 | S12V285(F) | 560 | 373 | 288 | 240 | 169 | 123 | 97 | 81 | 70 |
| Final | S12V300(F) | 680 | 421 | 308 | 247 | 182 | 133 | 106 | 89 | 77 |
| VPC | S12V370(F) | 739 | 488 | 376 | 310 | 231 | 168 | 132 | 109 | 93 |
| | S12V500(F) | 887 | 625 | 511 | 417 | 312 | 227 | 178 | 148 | 127 |
| | S6V740(F) | 1478 | 976 | 752 | 620 | 462 | 336 | 264 | 218 | 186 |

| | Model Number | Time | | | | | | | | |
|-------|--------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | 5 Min | 10 Min | 15 Min | 20 Min | 30 Min | 45 Min | 60 Min | 75 Min | 90 Min |
| | S12V120(F) | 243 | 152 | 117 | 96 | 72 | 52 | 41 | 34 | 29 |
| | S12V170(F) | 326 | 216 | 167 | 137 | 102 | 74 | 58 | 48 | 41 |
| 1.65 | S12V285(F) | 553 | 371 | 287 | 239 | 169 | 123 | 97 | 81 | 70 |
| Final | S12V300(F) | 663 | 418 | 307 | 247 | 181 | 132 | 106 | 89 | 77 |
| VPC | S12V370(F) | 732 | 486 | 375 | 309 | 230 | 167 | 131 | 108 | 92 |
| | S12V500(F) | 875 | 621 | 509 | 415 | 311 | 226 | 177 | 147 | 126 |
| | S6V740(F) | 1464 | 974 | 750 | 618 | 460 | 334 | 262 | 216 | 184 |

| | Model Number | Time | | | | | | | | |
|-------|--------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | 5 Min | 10 Min | 15 Min | 20 Min | 30 Min | 45 Min | 60 Min | 75 Min | 90 Min |
| | S12V120(F) | 242 | 151 | 117 | 96 | 72 | 52 | 41 | 34 | 29 |
| | S12V170(F) | 323 | 215 | 167 | 137 | 102 | 74 | 58 | 48 | 41 |
| 1.67 | S12V285(F) | 543 | 365 | 285 | 239 | 169 | 121 | 96 | 80 | 69 |
| Final | S12V300(F) | 654 | 415 | 306 | 245 | 180 | 131 | 105 | 88 | 76 |
| VPC | S12V370(F) | 723 | 484 | 373 | 309 | 230 | 167 | 131 | 108 | 92 |
| | S12V500(F) | 864 | 615 | 505 | 413 | 310 | 225 | 176 | 146 | 126 |
| | S6V740(F) | 1446 | 970 | 746 | 616 | 458 | 332 | 262 | 216 | 184 |



Sprinter Performance Specifications
Watts per Cell @25°C (77°F)

| | Model Number | Time | | | | | | | | |
|-------|--------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | 5 Min | 10 Min | 15 Min | 20 Min | 30 Min | 45 Min | 60 Min | 75 Min | 90 Min |
| | S12V120(F) | 239 | 150 | 116 | 95 | 71 | 52 | 41 | 34 | 29 |
| | S12V170(F) | 318 | 214 | 165 | 136 | 101 | 73 | 58 | 48 | 41 |
| 1.70 | S12V285(F) | 527 | 355 | 282 | 238 | 168 | 121 | 96 | 80 | 69 |
| Final | S12V300(F) | 638 | 410 | 304 | 245 | 180 | 131 | 105 | 88 | 76 |
| VPC | S12V370(F) | 703 | 481 | 372 | 307 | 228 | 165 | 130 | 107 | 91 |
| | S12V500(F) | 849 | 607 | 496 | 408 | 309 | 224 | 175 | 145 | 126 |
| | S6V740(F) | 1406 | 962 | 744 | 614 | 456 | 330 | 260 | 214 | 182 |

| | Model Number | Time | | | | | | | | |
|-------|--------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | 5 Min | 10 Min | 15 Min | 20 Min | 30 Min | 45 Min | 60 Min | 75 Min | 90 Min |
| | S12V120(F) | 234 | 149 | 115 | 94 | 70 | 51 | 40 | 33 | 29 |
| | S12V170(F) | 302 | 208 | 162 | 134 | 100 | 73 | 58 | 48 | 41 |
| 1.75 | S12V285(F) | 485 | 342 | 279 | 237 | 166 | 120 | 95 | 80 | 69 |
| Final | S12V300(F) | 597 | 398 | 300 | 243 | 179 | 130 | 104 | 88 | 76 |
| VPC | S12V370(F) | 668 | 458 | 359 | 297 | 224 | 163 | 129 | 107 | 91 |
| | S12V500(F) | 823 | 593 | 476 | 394 | 301 | 219 | 174 | 145 | 125 |
| | S6V740(F) | 1336 | 916 | 718 | 594 | 446 | 326 | 258 | 212 | 182 |

| | Model Number | Time | | | | | | | | |
|-------|--------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | 5 Min | 10 Min | 15 Min | 20 Min | 30 Min | 45 Min | 60 Min | 75 Min | 90 Min |
| | S12V120(F) | 222 | 145 | 113 | 93 | 69 | 50 | 40 | 33 | 28 |
| | S12V170(F) | 280 | 197 | 155 | 129 | 97 | 71 | 56 | 46 | 40 |
| 1.80 | S12V285(F) | 442 | 323 | 269 | 229 | 162 | 119 | 95 | 79 | 68 |
| Final | S12V300(F) | 544 | 374 | 287 | 235 | 175 | 128 | 103 | 86 | 75 |
| VPC | S12V370(F) | 607 | 435 | 345 | 287 | 218 | 159 | 127 | 105 | 89 |
| | S12V500(F) | 754 | 559 | 452 | 378 | 294 | 215 | 173 | 143 | 124 |
| | S6V740(F) | 1214 | 870 | 690 | 574 | 434 | 318 | 252 | 208 | 178 |

| | Model Number | Time | | | | | | | | |
|-------|--------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | 5 Min | 10 Min | 15 Min | 20 Min | 30 Min | 45 Min | 60 Min | 75 Min | 90 Min |
| | S12V120(F) | 203 | 137 | 107 | 89 | 66 | 48 | 38 | 32 | 27 |
| | S12V170(F) | 248 | 179 | 143 | 119 | 90 | 67 | 53 | 44 | 38 |
| 1.85 | S12V285(F) | 390 | 292 | 253 | 216 | 153 | 114 | 91 | 76 | 65 |
| Final | S12V300(F) | 480 | 339 | 266 | 221 | 167 | 124 | 99 | 83 | 72 |
| VPC | S12V370(F) | 514 | 374 | 302 | 255 | 196 | 147 | 118 | 98 | 84 |
| | S12V500(F) | 592 | 495 | 409 | 340 | 278 | 208 | 169 | 141 | 121 |
| | S6V740(F) | 1028 | 748 | 604 | 510 | 392 | 294 | 236 | 196 | 168 |