

EnerSys®

Power/Full Solutions



PowerSafe®
SBS XL

Performance Data

Constant Current Discharge Performance Data



Discharge Currents (Amperes) at 20°C

| End Voltage (Vpc) | Battery Type | Standby Time (Minutes) | | | | Standby Time (Hours) | | | | | | | | | | |
|-------------------|----------------|------------------------|------|------|------|----------------------|------|------|------|------|------|------|------|------|------|------|
| | | 30 | 35 | 40 | 45 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 20 |
| 1.75 | SBS XL 80F | 87.9 | 79.0 | 71.9 | 66.1 | 53.5 | 31.5 | 22.6 | 17.7 | 14.6 | 12.5 | 10.9 | 9.73 | 8.78 | 8.00 | 4.29 |
| | SBS XL 80F-FT | 87.9 | 79.0 | 71.9 | 66.1 | 53.5 | 31.5 | 22.6 | 17.7 | 14.6 | 12.5 | 10.9 | 9.73 | 8.78 | 8.00 | 4.29 |
| | SBS XL 150F-FT | 164 | 148 | 134 | 124 | 100 | 58.9 | 42.3 | 33.2 | 27.4 | 23.4 | 20.5 | 18.2 | 16.5 | 15.0 | 7.90 |
| | SBS XL 170F-FT | 188 | 169 | 154 | 141 | 114 | 67.1 | 48.1 | 37.7 | 31.1 | 26.6 | 23.2 | 20.7 | 18.7 | 17.0 | 9.11 |
| 1.80 | SBS XL 80F | 80.9 | 73.0 | 66.8 | 61.5 | 50.2 | 30.1 | 21.9 | 17.3 | 14.4 | 12.4 | 10.9 | 9.69 | 8.76 | 8.00 | 4.29 |
| | SBS XL 80F-FT | 80.9 | 73.0 | 66.8 | 61.5 | 50.2 | 30.1 | 21.9 | 17.3 | 14.4 | 12.4 | 10.9 | 9.69 | 8.76 | 8.00 | 4.29 |
| | SBS XL 150F-FT | 151 | 136 | 125 | 115 | 94.0 | 56.3 | 41.0 | 32.5 | 27.0 | 23.2 | 20.4 | 18.2 | 16.4 | 15.0 | 7.90 |
| 1.85 | SBS XL 80F | 70.0 | 63.6 | 58.4 | 54.2 | 45.0 | 27.5 | 20.2 | 16.1 | 13.5 | 11.6 | 10.2 | 9.11 | 8.24 | 7.53 | 4.08 |
| | SBS XL 80F-FT | 70.0 | 63.6 | 58.4 | 54.2 | 45.0 | 27.5 | 20.2 | 16.1 | 13.5 | 11.6 | 10.2 | 9.11 | 8.24 | 7.53 | 4.08 |
| | SBS XL 150F-FT | 131 | 119 | 109 | 101 | 84.1 | 51.4 | 37.9 | 30.2 | 25.2 | 21.7 | 19.1 | 17.1 | 15.5 | 14.1 | 7.51 |
| | SBS XL 170F-FT | 150 | 136 | 125 | 116 | 96.0 | 58.5 | 43.0 | 34.3 | 28.6 | 24.6 | 21.7 | 19.4 | 17.5 | 16.0 | 8.67 |

Discharge Currents (Amperes) at 35°C

| End Voltage (Vpc) | Battery Type | Standby Time (Minutes) | | | | Standby Time (Hours) | | | | | | | | | | |
|-------------------|----------------|------------------------|------|------|------|----------------------|------|------|------|------|------|------|------|------|------|------|
| | | 30 | 35 | 40 | 45 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 20 |
| 1.75 | SBS XL 80F | 94.2 | 84.4 | 76.6 | 70.2 | 56.5 | 32.7 | 23.5 | 18.3 | 15.1 | 12.9 | 11.3 | 10.0 | 9.05 | 8.25 | 4.43 |
| | SBS XL 80F-FT | 94.2 | 84.4 | 76.6 | 70.2 | 56.5 | 32.7 | 23.5 | 18.3 | 15.1 | 12.9 | 11.3 | 10.0 | 9.05 | 8.25 | 4.43 |
| | SBS XL 150F-FT | 176 | 158 | 143 | 131 | 106 | 61.3 | 44.0 | 34.3 | 28.3 | 24.1 | 21.1 | 18.8 | 17.0 | 15.5 | 8.16 |
| | SBS XL 170F-FT | 202 | 181 | 164 | 150 | 121 | 69.8 | 50.0 | 38.9 | 32.1 | 27.4 | 24.0 | 21.3 | 19.2 | 17.5 | 9.41 |
| 1.80 | SBS XL 80F | 86.0 | 77.5 | 70.7 | 65.1 | 52.7 | 31.2 | 22.7 | 17.9 | 14.8 | 12.7 | 11.2 | 9.99 | 9.03 | 8.25 | 4.43 |
| | SBS XL 80F-FT | 86.0 | 77.5 | 70.7 | 65.1 | 52.7 | 31.2 | 22.7 | 17.9 | 14.8 | 12.7 | 11.2 | 9.99 | 9.03 | 8.25 | 4.43 |
| | SBS XL 150F-FT | 161 | 145 | 132 | 122 | 98.6 | 58.5 | 42.5 | 33.5 | 27.8 | 23.9 | 21.0 | 18.7 | 16.9 | 15.5 | 8.16 |
| | SBS XL 170F-FT | 184 | 166 | 151 | 139 | 113 | 66.6 | 48.4 | 38.1 | 31.6 | 27.1 | 23.8 | 21.2 | 19.2 | 17.5 | 9.41 |
| 1.85 | SBS XL 80F | 73.7 | 67.0 | 61.4 | 56.7 | 46.9 | 28.5 | 20.9 | 16.6 | 13.8 | 11.9 | 10.5 | 9.38 | 8.50 | 7.76 | 4.22 |
| | SBS XL 80F-FT | 73.7 | 67.0 | 61.4 | 56.7 | 46.9 | 28.5 | 20.9 | 16.6 | 13.8 | 11.9 | 10.5 | 9.38 | 8.50 | 7.76 | 4.22 |
| | SBS XL 150F-FT | 138 | 125 | 115 | 106 | 87.7 | 53.3 | 39.2 | 31.1 | 25.9 | 22.4 | 19.7 | 17.6 | 15.9 | 14.5 | 7.76 |
| | SBS XL 170F-FT | 158 | 143 | 131 | 121 | 100 | 60.7 | 44.5 | 35.3 | 29.5 | 25.4 | 22.3 | 19.9 | 18.1 | 16.5 | 8.98 |

Constant Power Discharge Performance Data



Constant Power (Watts per cell) at 20°C

| End Voltage (Vpc) | Battery Type | Standby Time (Minutes) | | | | Standby Time (Hours) | | | | | | | | | | |
|-------------------|----------------|------------------------|-----|-----|-----|----------------------|------|------|------|------|------|------|------|------|------|------|
| | | 30 | 35 | 40 | 45 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 20 |
| 1.75 | SBS XL 80F | 161 | 146 | 133 | 123 | 99.6 | 59.5 | 43.2 | 34.1 | 28.3 | 24.2 | 21.3 | 19.0 | 17.1 | 15.6 | 8.44 |
| | SBS XL 80F-FT | 161 | 146 | 133 | 123 | 99.6 | 59.5 | 43.2 | 34.1 | 28.3 | 24.2 | 21.3 | 19.0 | 17.1 | 15.6 | 8.44 |
| | SBS XL 150F-FT | 301 | 273 | 249 | 230 | 186 | 111 | 80.9 | 64.0 | 53.0 | 45.4 | 39.8 | 35.5 | 32.1 | 29.3 | 15.6 |
| | SBS XL 170F-FT | 346 | 313 | 286 | 263 | 213 | 127 | 92.0 | 72.7 | 60.2 | 51.5 | 45.2 | 40.3 | 36.4 | 33.2 | 17.9 |
| 1.80 | SBS XL 80F | 151 | 137 | 125 | 116 | 94.6 | 57.2 | 42.0 | 33.5 | 27.9 | 24.0 | 21.1 | 18.9 | 17.1 | 15.6 | 8.44 |
| | SBS XL 80F-FT | 151 | 137 | 125 | 116 | 94.6 | 57.2 | 42.0 | 33.5 | 27.9 | 24.0 | 21.1 | 18.9 | 17.1 | 15.6 | 8.44 |
| | SBS XL 150F-FT | 282 | 256 | 234 | 216 | 177 | 107 | 78.6 | 62.8 | 52.3 | 45.0 | 39.6 | 35.4 | 32.0 | 29.3 | 15.6 |
| 1.85 | SBS XL 80F | 323 | 293 | 268 | 247 | 202 | 122 | 89.4 | 71.3 | 59.4 | 51.0 | 44.9 | 40.1 | 36.3 | 33.2 | 17.9 |
| | SBS XL 80F-FT | 323 | 293 | 268 | 247 | 202 | 122 | 89.4 | 71.3 | 59.4 | 51.0 | 44.9 | 40.1 | 36.3 | 33.2 | 17.9 |
| | SBS XL 150F-FT | 248 | 226 | 208 | 192 | 161 | 99.3 | 73.5 | 58.9 | 49.2 | 42.4 | 37.4 | 33.5 | 30.3 | 27.7 | 14.9 |
| | SBS XL 170F-FT | 284 | 259 | 237 | 219 | 184 | 113 | 83.5 | 66.9 | 55.9 | 48.2 | 42.5 | 38.0 | 34.4 | 31.4 | 17.2 |

Constant Power (Watts per cell) at 35°C

| End Voltage (Vpc) | Battery Type | Standby Time (Minutes) | | | | Standby Time (Hours) | | | | | | | | | | |
|-------------------|----------------|------------------------|-----|-----|-----|----------------------|------|------|------|------|------|------|------|------|------|------|
| | | 30 | 35 | 40 | 45 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 20 |
| 1.75 | SBS XL 80F | 172 | 155 | 142 | 131 | 105 | 62.1 | 44.9 | 35.4 | 29.2 | 25.0 | 21.9 | 19.5 | 17.6 | 16.1 | 8.72 |
| | SBS XL 80F-FT | 172 | 155 | 142 | 131 | 105 | 62.1 | 44.9 | 35.4 | 29.2 | 25.0 | 21.9 | 19.5 | 17.6 | 16.1 | 8.72 |
| | SBS XL 150F-FT | 322 | 290 | 265 | 244 | 197 | 116 | 84.1 | 66.3 | 54.8 | 46.8 | 41.0 | 36.6 | 33.1 | 30.2 | 16.1 |
| | SBS XL 170F-FT | 370 | 333 | 304 | 279 | 225 | 132 | 95.7 | 75.3 | 62.2 | 53.1 | 46.6 | 41.6 | 37.5 | 34.2 | 18.5 |
| 1.80 | SBS XL 80F | 160 | 145 | 133 | 122 | 99.1 | 59.5 | 43.6 | 34.6 | 28.8 | 24.7 | 21.7 | 19.4 | 17.6 | 16.1 | 8.72 |
| | SBS XL 80F-FT | 160 | 145 | 133 | 122 | 99.1 | 59.5 | 43.6 | 34.6 | 28.8 | 24.7 | 21.7 | 19.4 | 17.6 | 16.1 | 8.72 |
| | SBS XL 150F-FT | 298 | 271 | 248 | 229 | 185 | 111 | 81.7 | 64.9 | 53.9 | 46.3 | 40.7 | 36.4 | 33.0 | 30.2 | 16.1 |
| | SBS XL 170F-FT | 343 | 310 | 284 | 262 | 212 | 127 | 92.9 | 73.8 | 61.3 | 52.6 | 46.2 | 41.3 | 37.4 | 34.2 | 18.5 |
| 1.85 | SBS XL 80F | 140 | 127 | 117 | 108 | 89.7 | 54.9 | 40.6 | 32.4 | 27.0 | 23.3 | 20.6 | 18.4 | 16.7 | 15.2 | 8.33 |
| | SBS XL 80F-FT | 140 | 127 | 117 | 108 | 89.7 | 54.9 | 40.6 | 32.4 | 27.0 | 23.3 | 20.6 | 18.4 | 16.7 | 15.2 | 8.33 |
| | SBS XL 150F-FT | 261 | 238 | 218 | 202 | 168 | 103 | 76.0 | 60.8 | 50.6 | 43.7 | 38.5 | 34.5 | 31.3 | 28.6 | 15.4 |
| | SBS XL 170F-FT | 299 | 272 | 250 | 230 | 192 | 117 | 86.4 | 69.0 | 57.5 | 49.6 | 43.7 | 39.1 | 35.4 | 32.4 | 17.7 |



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