

# EnerSys®

Power/Full Solutions



PowerSafe®  
**SBSXC+**

## Performance Data

for Renewable Energy Applications

## Constant Current Discharge Performance Data

Discharge Current (Amperes) to 1.85Vpc at 25°C

| Battery Type                 | Standby Time (Hours) |      |      |      |      |
|------------------------------|----------------------|------|------|------|------|
|                              | 48                   | 72   | 96   | 120  | 168  |
| SBS XC+ 92F / SBS XC+ 92F-FT | 2.02                 | 1.37 | 1.03 | 0.83 | 0.60 |
| SBS XC+ 150F-FT              | 3.16                 | 2.12 | 1.59 | 1.28 | 0.92 |
| SBS XC+ 190F-FT              | 4.16                 | 2.78 | 2.09 | 1.67 | 1.19 |
| SBS XC+ 210F-FT              | 4.50                 | 3.12 | 2.37 | 1.90 | 1.36 |
| SBS XC+ 320                  | 7.57                 | 5.12 | 3.87 | 3.11 | 2.24 |
| SBS XC+ 400                  | 9.46                 | 6.41 | 4.84 | 3.89 | 2.80 |
| SBS XC+ 580                  | 13.7                 | 9.29 | 7.03 | 5.65 | 4.06 |
| SBS XC+ 680                  | 16.0                 | 10.9 | 8.24 | 6.62 | 4.76 |
| SBS XC+ 780                  | 18.4                 | 12.5 | 9.45 | 7.60 | 5.46 |
| SBS XC+ 900                  | 21.2                 | 14.4 | 10.9 | 8.77 | 6.30 |
| SBS XC+ 970                  | 22.3                 | 15.3 | 11.6 | 9.43 | 6.82 |
| SBS XC+ 1200                 | 28.9                 | 19.8 | 15.1 | 12.2 | 8.83 |
| SBS XC+ 1500                 | 35.8                 | 24.5 | 18.7 | 15.1 | 10.9 |
| SBS XC+ 1800                 | 42.9                 | 29.4 | 22.4 | 18.1 | 13.1 |

Discharge Current (Amperes) to 1.90Vpc at 25°C

| Battery Type                 | Standby Time (Hours) |      |      |      |      |
|------------------------------|----------------------|------|------|------|------|
|                              | 48                   | 72   | 96   | 120  | 168  |
| SBS XC+ 92F / SBS XC+ 92F-FT | 1.61                 | 1.08 | 0.81 | 0.65 | 0.47 |
| SBS XC+ 150F-FT              | 2.71                 | 1.83 | 1.39 | 1.13 | 0.82 |
| SBS XC+ 190F-FT              | 3.67                 | 2.45 | 1.84 | 1.48 | 1.05 |
| SBS XC+ 210F-FT              | 4.08                 | 2.89 | 2.22 | 1.80 | 1.31 |
| SBS XC+ 320                  | 7.16                 | 5.11 | 3.87 | 3.11 | 2.24 |
| SBS XC+ 400                  | 8.95                 | 6.39 | 4.84 | 3.89 | 2.80 |
| SBS XC+ 580                  | 12.9                 | 9.26 | 7.03 | 5.65 | 4.06 |
| SBS XC+ 680                  | 15.2                 | 10.8 | 8.24 | 6.62 | 4.76 |
| SBS XC+ 780                  | 17.4                 | 12.4 | 9.45 | 7.60 | 5.46 |
| SBS XC+ 900                  | 20.1                 | 14.3 | 10.9 | 8.77 | 6.30 |
| SBS XC+ 970                  | 20.6                 | 14.2 | 10.9 | 8.87 | 6.58 |
| SBS XC+ 1200                 | 26.7                 | 18.4 | 14.1 | 11.4 | 8.51 |
| SBS XC+ 1500                 | 33.1                 | 22.8 | 17.4 | 14.2 | 10.5 |
| SBS XC+ 1800                 | 39.7                 | 27.3 | 20.9 | 17.0 | 12.6 |

Discharge Current (Amperes) to 1.95Vpc at 25°C

| Battery Type                 | Standby Time (Hours) |      |      |      |      |
|------------------------------|----------------------|------|------|------|------|
|                              | 48                   | 72   | 96   | 120  | 168  |
| SBS XC+ 92F / SBS XC+ 92F-FT | 1.17                 | 0.78 | 0.58 | 0.47 | 0.35 |
| SBS XC+ 150F-FT              | 2.22                 | 1.51 | 1.16 | 0.94 | 0.68 |
| SBS XC+ 190F-FT              | 2.97                 | 1.99 | 1.49 | 1.19 | 0.85 |
| SBS XC+ 210F-FT              | 3.54                 | 2.54 | 1.98 | 1.61 | 1.18 |
| SBS XC+ 320                  | 6.22                 | 4.49 | 3.51 | 2.87 | 2.11 |
| SBS XC+ 400                  | 7.78                 | 5.61 | 4.38 | 3.59 | 2.64 |
| SBS XC+ 580                  | 11.2                 | 8.14 | 6.36 | 5.21 | 3.82 |
| SBS XC+ 680                  | 13.2                 | 9.55 | 7.45 | 6.11 | 4.49 |
| SBS XC+ 780                  | 15.1                 | 10.9 | 8.55 | 7.01 | 5.15 |
| SBS XC+ 900                  | 17.5                 | 12.6 | 9.87 | 8.09 | 5.94 |
| SBS XC+ 970                  | 17.7                 | 12.2 | 9.37 | 7.80 | 5.83 |
| SBS XC+ 1200                 | 22.9                 | 15.8 | 12.1 | 10.0 | 7.54 |
| SBS XC+ 1500                 | 28.4                 | 19.6 | 15.0 | 12.4 | 9.33 |
| SBS XC+ 1800                 | 34.0                 | 23.5 | 18.0 | 14.9 | 11.1 |

## Constant Power Discharge Performance Data

Discharge Power (Watts per cell) to 1.85Vpc at 25°C

| Battery Type                 | Standby Time (Hours) |      |      |      |      |
|------------------------------|----------------------|------|------|------|------|
|                              | 48                   | 72   | 96   | 120  | 168  |
| SBS XC+ 92F / SBS XC+ 92F-FT | 3.99                 | 2.69 | 2.04 | 1.64 | 1.17 |
| SBS XC+ 150F-FT              | 6.37                 | 4.26 | 3.21 | 2.59 | 1.87 |
| SBS XC+ 190F-FT              | 8.27                 | 5.55 | 4.17 | 3.34 | 2.39 |
| SBS XC+ 210F-FT              | 8.99                 | 6.50 | 5.16 | 4.26 | 3.15 |
| SBS XC+ 320                  | 15.1                 | 10.3 | 7.87 | 6.34 | 4.57 |
| SBS XC+ 400                  | 18.9                 | 12.9 | 9.83 | 7.93 | 5.71 |
| SBS XC+ 580                  | 27.5                 | 18.7 | 14.2 | 11.5 | 8.28 |
| SBS XC+ 680                  | 32.2                 | 22.0 | 16.7 | 13.4 | 9.71 |
| SBS XC+ 780                  | 37.0                 | 25.2 | 19.1 | 15.4 | 11.1 |
| SBS XC+ 900                  | 42.7                 | 29.1 | 22.1 | 17.8 | 12.8 |
| SBS XC+ 970                  | 45.4                 | 31.0 | 23.5 | 19.0 | 13.7 |
| SBS XC+ 1200                 | 58.8                 | 40.2 | 30.5 | 24.6 | 17.7 |
| SBS XC+ 1500                 | 72.8                 | 49.8 | 37.8 | 30.4 | 22.0 |
| SBS XC+ 1800                 | 87.3                 | 59.7 | 45.3 | 36.5 | 26.3 |

Discharge Power (Watts per cell) to 1.90Vpc at 25°C

| Battery Type                 | Standby Time (Hours) |      |      |      |      |
|------------------------------|----------------------|------|------|------|------|
|                              | 48                   | 72   | 96   | 120  | 168  |
| SBS XC+ 92F / SBS XC+ 92F-FT | 3.20                 | 2.16 | 1.62 | 1.29 | 0.93 |
| SBS XC+ 150F-FT              | 5.51                 | 3.72 | 2.83 | 2.31 | 1.67 |
| SBS XC+ 190F-FT              | 7.35                 | 4.94 | 3.71 | 2.97 | 2.12 |
| SBS XC+ 210F-FT              | 8.18                 | 6.11 | 4.88 | 4.06 | 3.03 |
| SBS XC+ 320                  | 14.4                 | 10.2 | 7.87 | 6.34 | 4.57 |
| SBS XC+ 400                  | 18.0                 | 12.8 | 9.83 | 7.93 | 5.71 |
| SBS XC+ 580                  | 26.1                 | 18.5 | 14.2 | 11.5 | 8.28 |
| SBS XC+ 680                  | 30.6                 | 21.8 | 16.7 | 13.4 | 9.71 |
| SBS XC+ 780                  | 35.1                 | 25.0 | 19.1 | 15.4 | 11.1 |
| SBS XC+ 900                  | 40.5                 | 28.8 | 22.1 | 17.8 | 12.8 |
| SBS XC+ 970                  | 42.2                 | 29.0 | 22.1 | 17.8 | 13.2 |
| SBS XC+ 1200                 | 54.6                 | 37.5 | 28.6 | 23.1 | 17.1 |
| SBS XC+ 1500                 | 67.7                 | 46.5 | 35.4 | 28.6 | 21.1 |
| SBS XC+ 1800                 | 81.1                 | 55.7 | 42.4 | 34.3 | 25.4 |

Discharge Power (Watts per cell) to 1.95Vpc at 25°C

| Battery Type                 | Standby Time (Hours) |      |      |      |      |
|------------------------------|----------------------|------|------|------|------|
|                              | 48                   | 72   | 96   | 120  | 168  |
| SBS XC+ 92F / SBS XC+ 92F-FT | 2.35                 | 1.57 | 1.18 | 0.95 | 0.74 |
| SBS XC+ 150F-FT              | 4.58                 | 3.10 | 2.39 | 1.95 | 1.41 |
| SBS XC+ 190F-FT              | 6.02                 | 4.03 | 3.04 | 2.43 | 1.74 |
| SBS XC+ 210F-FT              | 7.32                 | 5.50 | 4.41 | 3.68 | 2.77 |
| SBS XC+ 320                  | 12.5                 | 9.11 | 7.12 | 5.85 | 4.30 |
| SBS XC+ 400                  | 15.7                 | 11.3 | 8.90 | 7.31 | 5.38 |
| SBS XC+ 580                  | 22.7                 | 16.5 | 12.9 | 10.6 | 7.81 |
| SBS XC+ 680                  | 26.6                 | 19.3 | 15.1 | 12.4 | 9.15 |
| SBS XC+ 780                  | 30.6                 | 22.2 | 17.3 | 14.2 | 10.5 |
| SBS XC+ 900                  | 35.3                 | 25.6 | 20.0 | 16.4 | 12.1 |
| SBS XC+ 970                  | 36.5                 | 25.1 | 19.1 | 15.8 | 11.8 |
| SBS XC+ 1200                 | 47.3                 | 32.5 | 24.7 | 20.4 | 15.2 |
| SBS XC+ 1500                 | 58.6                 | 40.2 | 30.6 | 25.3 | 18.9 |
| SBS XC+ 1800                 | 70.2                 | 48.2 | 36.7 | 30.3 | 22.6 |



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