

EnerSys®

Power/Full Solutions



data safe[®] HX PLUS data safe[®] HX

Performance Data

Constant Power Discharge Performance Data

Constant Power (Watts per cell) to 1.75Vpc at 25°C/77°F

| DataSafe HX+ Battery Type | Standby Time (Minutes) | | | | | | |
|------------------------------|------------------------|-------|-------|-------|-------|-------|-------|
| | 5 | 10 | 15 | 20 | 30 | 45 | 60 |
| 12HX385+ | 625.1 | 466.9 | 369.8 | 305.7 | 228.2 | 168.0 | 132.7 |
| 12HX450+ | 729.9 | 544.9 | 431.5 | 356.7 | 266.2 | 195.9 | 154.7 |
| 12HX530+ | 794.3 | 616.8 | 501.6 | 422.0 | 320.6 | 238.3 | 190.0 |
| 12HX600+ | 899.1 | 698.7 | 568.1 | 477.1 | 362.2 | 269.1 | 214.5 |
| 12HX650F-FR+ | 990.8 | 772.9 | 627.5 | 526.7 | 400.5 | 298.9 | 239.6 |
| 12HX700F-FR+ | 1024 | 809.0 | 664.3 | 557.9 | 424.6 | 316.0 | 251.3 |

| DataSafe HX Battery Type | Standby Time (Minutes) | | | | | | |
|-----------------------------|------------------------|-------|-------|-------|-------|-------|-------|
| | 5 | 10 | 15 | 20 | 30 | 45 | 60 |
| 12HX25 | 46.8 | 30.4 | 22.8 | 18.4 | 13.3 | 9.62 | 7.57 |
| 12HX35 | 70.3 | 47.0 | 36.0 | 29.1 | 21.2 | 15.2 | 12.0 |
| 12HX50 | 105.4 | 70.0 | 53.4 | 43.5 | 31.9 | 23.0 | 18.1 |
| 12HX80 | 144.3 | 101.1 | 78.6 | 63.9 | 46.7 | 33.6 | 26.6 |
| 12HX105 | 192.2 | 133.7 | 102.1 | 83.8 | 61.8 | 45.0 | 35.7 |
| 12HX100S | 161.8 | 124.8 | 101.4 | 85.4 | 65.4 | 49.1 | 39.4 |
| 12HX135 | 244.1 | 171.4 | 134.0 | 110.1 | 81.8 | 59.6 | 47.5 |
| 12HX150 | 270.1 | 195.3 | 152.1 | 126.9 | 96.0 | 71.2 | 57.0 |
| 12HX205 | 373.1 | 257.9 | 197.2 | 160.3 | 117.6 | 85.1 | 66.6 |
| 12HX300 | 513.3 | 356.7 | 276.9 | 227.2 | 173.3 | 127.8 | 102.1 |
| 12HX330 | 590.4 | 417.9 | 328.4 | 272.1 | 204.3 | 149.9 | 119.5 |
| 12HX400 | 671.2 | 478.5 | 371.2 | 308.2 | 230.0 | 170.0 | 136.1 |
| 12HX505 | 782.8 | 600.2 | 479.4 | 398.4 | 298.1 | 218.1 | 172.9 |
| 12HX540 | 834.9 | 637.7 | 511.0 | 424.5 | 317.8 | 233.8 | 185.5 |

Constant Power (Watts per cell) to 1.70Vpc at 25°C/77°F

| DataSafe HX+ Battery Type | Standby Time (Minutes) | | | | | | |
|------------------------------|------------------------|-------|-------|-------|-------|-------|-------|
| | 5 | 10 | 15 | 20 | 30 | 45 | 60 |
| 12HX385+ | 666.6 | 489.1 | 381.6 | 312.8 | 230.9 | 168.1 | 132.7 |
| 12HX450+ | 778.6 | 570.9 | 445.3 | 364.9 | 269.3 | 196.0 | 154.7 |
| 12HX530+ | 848.1 | 650.4 | 522.2 | 435.2 | 326.5 | 240.0 | 190.4 |
| 12HX600+ | 962.7 | 738.0 | 591.6 | 492.2 | 369.1 | 271.0 | 214.8 |
| 12HX650F-FR+ | 1060 | 806.8 | 644.8 | 536.4 | 404.3 | 299.7 | 239.6 |
| 12HX700F-FR+ | 1089 | 850.6 | 690.9 | 575.0 | 432.4 | 317.0 | 251.3 |

| DataSafe HX Battery Type | Standby Time (Minutes) | | | | | | |
|-----------------------------|------------------------|-------|-------|-------|-------|-------|-------|
| | 5 | 10 | 15 | 20 | 30 | 45 | 60 |
| 12HX25 | 49.0 | 31.3 | 23.3 | 18.6 | 13.4 | 9.63 | 7.57 |
| 12HX35 | 72.8 | 47.9 | 36.2 | 29.2 | 21.2 | 15.2 | 12.0 |
| 12HX50 | 110.5 | 72.0 | 54.4 | 44.0 | 32.1 | 23.0 | 18.1 |
| 12HX80 | 152.2 | 104.2 | 80.1 | 64.7 | 46.8 | 33.6 | 26.6 |
| 12HX105 | 204.1 | 139.1 | 105.2 | 85.6 | 62.9 | 45.6 | 36.1 |
| 12HX100S | 174.5 | 131.9 | 105.4 | 88.1 | 66.9 | 49.8 | 39.7 |
| 12HX135 | 256.0 | 175.5 | 135.5 | 110.6 | 81.8 | 59.6 | 47.5 |
| 12HX150 | 289.1 | 205.0 | 157.6 | 130.0 | 97.4 | 71.5 | 57.0 |
| 12HX205 | 399.5 | 269.3 | 203.5 | 164.2 | 118.5 | 85.1 | 66.6 |
| 12HX300 | 545.4 | 368.7 | 283.4 | 231.0 | 174.3 | 127.8 | 102.1 |
| 12HX330 | 624.2 | 430.7 | 335.6 | 276.3 | 205.6 | 149.9 | 119.5 |
| 12HX400 | 708.1 | 493.2 | 380.0 | 312.8 | 231.6 | 170.0 | 136.1 |
| 12HX505 | 844.7 | 637.1 | 498.7 | 409.9 | 301.3 | 217.9 | 172.9 |
| 12HX540 | 897.5 | 674.8 | 531.7 | 438.5 | 326.3 | 235.9 | 186.2 |

Constant Power Discharge Performance Data

Constant Power (Watts per cell) to 1.67Vpc at 25°C/77°F

| DataSafe HX+ Battery Type | Standby Time (Minutes) | | | | | | |
|------------------------------|------------------------|-------|-------|-------|-------|-------|-------|
| | 5 | 10 | 15 | 20 | 30 | 45 | 60 |
| 12HX385+ | 688.5 | 498.2 | 385.8 | 314.5 | 230.9 | 168.1 | 132.7 |
| 12HX450+ | 804.3 | 581.7 | 450.2 | 367.0 | 269.3 | 196.0 | 154.7 |
| 12HX530+ | 876.2 | 665.8 | 530.4 | 438.5 | 326.8 | 240.0 | 190.4 |
| 12HX600+ | 995.7 | 755.8 | 600.5 | 496.2 | 369.4 | 271.0 | 214.8 |
| 12HX650F-FR+ | 1094 | 819.5 | 649.9 | 537.9 | 404.3 | 299.7 | 239.6 |
| 12HX700F-FR+ | 1122 | 869.9 | 700.6 | 580.9 | 432.4 | 317.0 | 251.3 |

| DataSafe HX Battery Type | Standby Time (Minutes) | | | | | | |
|-----------------------------|------------------------|-------|-------|-------|-------|-------|-------|
| | 5 | 10 | 15 | 20 | 30 | 45 | 60 |
| 12HX25 | 50.0 | 31.6 | 23.3 | 18.6 | 13.4 | 9.63 | 7.57 |
| 12HX35 | 73.8 | 48.0 | 36.2 | 29.2 | 21.2 | 15.2 | 12.0 |
| 12HX50 | 112.7 | 72.7 | 54.5 | 44.0 | 32.1 | 23.0 | 18.1 |
| 12HX80 | 155.6 | 105.2 | 80.2 | 64.7 | 46.8 | 33.6 | 26.6 |
| 12HX105 | 209.6 | 141.3 | 106.9 | 86.0 | 63.1 | 45.7 | 36.2 |
| 12HX100S | 180.9 | 134.8 | 106.9 | 89.0 | 67.2 | 49.8 | 39.7 |
| 12HX135 | 260.3 | 176.5 | 135.5 | 110.6 | 81.8 | 59.6 | 47.5 |
| 12HX150 | 298.7 | 209.0 | 159.6 | 130.7 | 97.4 | 71.5 | 57.0 |
| 12HX205 | 412.4 | 273.9 | 205.5 | 164.2 | 118.5 | 85.1 | 66.6 |
| 12HX300 | 557.9 | 373.1 | 284.3 | 231.0 | 174.3 | 127.8 | 102.1 |
| 12HX330 | 637.2 | 435.4 | 336.4 | 276.3 | 205.6 | 149.9 | 119.5 |
| 12HX400 | 722.1 | 498.4 | 381.2 | 312.8 | 231.6 | 170.0 | 136.1 |
| 12HX505 | 877.4 | 652.9 | 506.3 | 412.1 | 301.3 | 217.9 | 172.9 |
| 12HX540 | 930.7 | 690.9 | 540.3 | 444.3 | 326.4 | 235.9 | 186.2 |

Constant Power (Watts per cell) to 1.65Vpc at 25°C/77°F

| DataSafe HX+ Battery Type | Standby Time (Minutes) | | | | | | |
|------------------------------|------------------------|-------|-------|-------|-------|-------|-------|
| | 5 | 10 | 15 | 20 | 30 | 45 | 60 |
| 12HX385+ | 701.2 | 503.0 | 387.7 | 314.5 | 230.9 | 168.1 | 132.7 |
| 12HX450+ | 819.0 | 587.2 | 452.4 | 367.0 | 269.3 | 196.0 | 154.7 |
| 12HX530+ | 893.2 | 673.7 | 533.8 | 439.5 | 326.8 | 240.0 | 190.4 |
| 12HX600+ | 1016 | 764.8 | 604.3 | 497.3 | 369.4 | 271.0 | 214.8 |
| 12HX650F-FR+ | 1113 | 824.8 | 651.8 | 537.9 | 404.3 | 299.7 | 239.6 |
| 12HX700F-FR+ | 1143 | 880.2 | 705.3 | 583.5 | 432.4 | 317.0 | 251.3 |

| DataSafe HX Battery Type | Standby Time (Minutes) | | | | | | |
|-----------------------------|------------------------|-------|-------|-------|-------|-------|-------|
| | 5 | 10 | 15 | 20 | 30 | 45 | 60 |
| 12HX25 | 50.5 | 31.6 | 23.3 | 18.6 | 13.4 | 9.63 | 7.57 |
| 12HX35 | 74.2 | 48.0 | 36.2 | 29.2 | 21.2 | 15.2 | 12.0 |
| 12HX50 | 113.9 | 72.8 | 54.5 | 44.0 | 32.1 | 23.0 | 18.1 |
| 12HX80 | 157.2 | 105.5 | 80.2 | 64.7 | 46.8 | 33.6 | 26.6 |
| 12HX105 | 212.6 | 142.3 | 106.7 | 86.2 | 63.1 | 45.7 | 36.2 |
| 12HX100S | 184.7 | 136.2 | 107.6 | 89.4 | 67.2 | 49.8 | 39.7 |
| 12HX135 | 262.1 | 176.7 | 135.5 | 110.6 | 81.8 | 59.6 | 47.5 |
| 12HX150 | 304.3 | 210.9 | 160.5 | 130.7 | 97.4 | 71.5 | 57.0 |
| 12HX205 | 419.6 | 276.3 | 205.5 | 164.2 | 118.5 | 85.1 | 66.6 |
| 12HX300 | 563.3 | 374.8 | 284.3 | 231.0 | 174.3 | 127.8 | 102.1 |
| 12HX330 | 643.1 | 437.3 | 336.4 | 276.3 | 205.6 | 149.9 | 119.5 |
| 12HX400 | 728.7 | 500.3 | 381.2 | 312.8 | 231.6 | 170.0 | 136.1 |
| 12HX505 | 897.3 | 660.7 | 510.1 | 412.1 | 301.3 | 217.9 | 172.9 |
| 12HX540 | 951.0 | 699.2 | 544.9 | 445.5 | 326.4 | 235.9 | 186.2 |

Constant Power Discharge Performance Data

Constant Power (Watts per cell) to 1.63Vpc at 25°C/77°F

| DataSafe HX+ Battery Type | Standby Time (Minutes) | | | | | | |
|------------------------------|------------------------|-------|-------|-------|-------|-------|-------|
| | 5 | 10 | 15 | 20 | 30 | 45 | 60 |
| 12HX385+ | 713.1 | 507.0 | 388.3 | 314.5 | 230.9 | 168.1 | 132.7 |
| 12HX450+ | 833.1 | 591.9 | 453.2 | 367.0 | 269.3 | 196.0 | 154.7 |
| 12HX530+ | 909.0 | 680.2 | 535.4 | 439.5 | 326.8 | 240.0 | 190.4 |
| 12HX600+ | 1034 | 772.2 | 606.4 | 497.3 | 369.4 | 271.0 | 214.8 |
| 12HX650F-FR+ | 1130 | 828.4 | 651.8 | 537.9 | 404.3 | 299.7 | 239.6 |
| 12HX700F-FR+ | 1162 | 889.0 | 709.1 | 583.9 | 432.4 | 317.0 | 251.3 |

| DataSafe HX Battery Type | Standby Time (Minutes) | | | | | | |
|-----------------------------|------------------------|-------|-------|-------|-------|-------|-------|
| | 5 | 10 | 15 | 20 | 30 | 45 | 60 |
| 12HX25 | 50.9 | 31.6 | 23.3 | 18.6 | 13.4 | 9.63 | 7.57 |
| 12HX35 | 74.4 | 48.0 | 36.2 | 29.2 | 21.2 | 15.2 | 12.0 |
| 12HX50 | 115.0 | 72.8 | 54.5 | 44.0 | 32.1 | 23.0 | 18.1 |
| 12HX80 | 158.4 | 105.5 | 80.2 | 64.7 | 46.8 | 33.6 | 26.6 |
| 12HX105 | 215.3 | 143.1 | 107.0 | 86.3 | 63.1 | 45.7 | 36.2 |
| 12HX100S | 188.1 | 137.4 | 108.1 | 89.5 | 67.2 | 49.8 | 39.7 |
| 12HX135 | 263.4 | 176.7 | 135.5 | 110.6 | 81.8 | 59.6 | 47.5 |
| 12HX150 | 309.1 | 212.5 | 160.5 | 130.7 | 97.4 | 71.5 | 57.0 |
| 12HX205 | 425.7 | 278.2 | 205.5 | 164.2 | 118.5 | 85.1 | 66.6 |
| 12HX300 | 567.2 | 374.8 | 284.3 | 231.0 | 174.3 | 127.8 | 102.1 |
| 12HX330 | 647.6 | 437.2 | 336.4 | 276.3 | 205.6 | 149.9 | 119.5 |
| 12HX400 | 733.7 | 500.3 | 381.2 | 312.8 | 231.6 | 170.0 | 136.1 |
| 12HX505 | 915.7 | 667.1 | 510.9 | 412.1 | 301.3 | 217.9 | 172.9 |
| 12HX540 | 969.9 | 706.1 | 548.7 | 445.5 | 326.4 | 235.9 | 186.2 |

Constant Power (Watts per cell) to 1.60Vpc at 25°C/77°F

| DataSafe HX+ Battery Type | Standby Time (Minutes) | | | | | | |
|------------------------------|------------------------|-------|-------|-------|-------|-------|-------|
| | 5 | 10 | 15 | 20 | 30 | 45 | 60 |
| 12HX385+ | 729.0 | 511.2 | 388.3 | 314.5 | 230.9 | 168.1 | 132.7 |
| 12HX450+ | 851.6 | 596.8 | 453.2 | 367.0 | 269.3 | 196.0 | 154.7 |
| 12HX530+ | 930.0 | 688.0 | 536.4 | 439.5 | 326.8 | 240.0 | 190.4 |
| 12HX600+ | 1059 | 780.8 | 607.5 | 497.3 | 369.4 | 271.0 | 214.8 |
| 12HX650F-FR+ | 1134 | 831.2 | 651.8 | 537.9 | 404.3 | 299.7 | 239.6 |
| 12HX700F-FR+ | 1189 | 899.0 | 712.6 | 583.9 | 432.4 | 317.0 | 251.3 |

| DataSafe HX Battery Type | Standby Time (Minutes) | | | | | | |
|-----------------------------|------------------------|-------|-------|-------|-------|-------|-------|
| | 5 | 10 | 15 | 20 | 30 | 45 | 60 |
| 12HX25 | 51.4 | 31.6 | 23.3 | 18.6 | 13.4 | 9.63 | 7.57 |
| 12HX35 | 74.6 | 48.0 | 36.2 | 29.2 | 21.2 | 15.2 | 12.0 |
| 12HX50 | 116.1 | 72.8 | 54.5 | 44.0 | 32.1 | 23.0 | 18.1 |
| 12HX80 | 159.6 | 105.5 | 80.2 | 64.7 | 46.8 | 33.6 | 26.6 |
| 12HX105 | 218.6 | 143.7 | 107.0 | 86.3 | 63.1 | 45.7 | 36.2 |
| 12HX100S | 192.4 | 138.5 | 108.5 | 89.5 | 67.2 | 49.8 | 39.7 |
| 12HX135 | 264.2 | 176.7 | 135.5 | 110.6 | 81.8 | 59.6 | 47.5 |
| 12HX150 | 315.1 | 214.0 | 160.5 | 130.7 | 97.4 | 71.5 | 57.0 |
| 12HX205 | 433.2 | 278.8 | 205.5 | 164.2 | 118.5 | 85.1 | 66.6 |
| 12HX300 | 571.0 | 374.8 | 284.3 | 231.0 | 174.3 | 127.8 | 102.1 |
| 12HX330 | 652.0 | 437.2 | 336.4 | 276.3 | 205.6 | 149.9 | 119.5 |
| 12HX400 | 738.6 | 500.3 | 381.2 | 312.8 | 231.6 | 170.0 | 136.1 |
| 12HX505 | 940.5 | 675.0 | 510.9 | 412.1 | 301.3 | 217.9 | 172.9 |
| 12HX540 | 994.8 | 714.5 | 549.5 | 445.5 | 326.4 | 235.9 | 186.2 |

Constant Current Discharge Performance Data

Discharge Current (Amperes) to 1.75Vpc at 25°C/77°F

| DataSafe HX+ Battery Type | Standby Time (Minutes) | | | | | | |
|------------------------------|------------------------|-------|-------|-------|-------|-------|-------|
| | 5 | 10 | 15 | 20 | 30 | 45 | 60 |
| 12HX385+ | 352.4 | 256.9 | 200.4 | 163.8 | 120.7 | 87.22 | 68.58 |
| 12HX450+ | 411.5 | 299.8 | 233.8 | 191.1 | 140.7 | 101.7 | 79.96 |
| 12HX530+ | 450.3 | 342.8 | 275.2 | 228.8 | 171.2 | 125.2 | 99.45 |
| 12HX600+ | 509.8 | 388.5 | 311.4 | 258.7 | 193.6 | 141.4 | 112.2 |
| 12HX650F-FR+ | 567.4 | 431.0 | 342.3 | 283.8 | 212.6 | 156.3 | 124.5 |
| 12HX700F-FR+ | 581.1 | 451.0 | 363.6 | 302.2 | 226.4 | 165.6 | 130.6 |

| DataSafe HX Battery Type | Standby Time (Minutes) | | | | | | |
|-----------------------------|------------------------|-------|-------|-------|-------|-------|------|
| | 5 | 10 | 15 | 20 | 30 | 45 | 60 |
| 12HX25 | 25.6 | 16.3 | 12.1 | 9.64 | 6.93 | 4.98 | 3.89 |
| 12HX35 | 38.6 | 25.2 | 19.1 | 15.2 | 10.9 | 7.80 | 6.11 |
| 12HX50 | 57.8 | 37.7 | 28.4 | 22.9 | 16.7 | 11.9 | 9.26 |
| 12HX80 | 80.4 | 55.1 | 42.2 | 33.9 | 24.4 | 17.4 | 13.6 |
| 12HX105 | 105.9 | 71.9 | 54.7 | 44.2 | 32.4 | 23.5 | 18.6 |
| 12HX100S | 91.5 | 69.4 | 55.7 | 46.5 | 35.1 | 25.9 | 20.7 |
| 12HX135 | 135.9 | 93.4 | 71.8 | 58.4 | 42.7 | 30.8 | 24.3 |
| 12HX150 | 152.1 | 106.7 | 82.6 | 68.2 | 51.0 | 37.4 | 29.5 |
| 12HX205 | 208.0 | 140.6 | 106.0 | 85.4 | 61.9 | 44.0 | 34.4 |
| 12HX300 | 286.4 | 195.0 | 149.0 | 121.4 | 92.1 | 66.7 | 52.8 |
| 12HX330 | 329.2 | 228.9 | 177.4 | 145.6 | 108.0 | 78.3 | 61.7 |
| 12HX400 | 375.6 | 261.1 | 200.4 | 165.0 | 121.5 | 89.0 | 70.4 |
| 12HX505 | 445.1 | 333.1 | 262.3 | 215.4 | 158.9 | 114.3 | 89.6 |
| 12HX540 | 473.3 | 353.8 | 279.1 | 229.2 | 169.3 | 123.0 | 97.3 |

Discharge Current (Amperes) to 1.70Vpc at 25°C/77°F

| DataSafe HX+ Battery Type | Standby Time (Minutes) | | | | | | |
|------------------------------|------------------------|-------|-------|-------|-------|-------|-------|
| | 5 | 10 | 15 | 20 | 30 | 45 | 60 |
| 12HX385+ | 384.5 | 273.3 | 208.7 | 168.9 | 122.1 | 87.22 | 68.58 |
| 12HX450+ | 449.0 | 319.0 | 243.5 | 197.0 | 142.4 | 101.7 | 79.96 |
| 12HX530+ | 493.0 | 368.0 | 290.0 | 238.0 | 175.3 | 126.1 | 99.45 |
| 12HX600+ | 559.7 | 417.7 | 328.5 | 269.3 | 198.1 | 142.4 | 112.2 |
| 12HX650F-FR+ | 620.0 | 457.0 | 355.5 | 291.5 | 215.1 | 156.5 | 124.5 |
| 12HX700F-FR+ | 633.6 | 482.9 | 383.5 | 314.2 | 230.9 | 165.6 | 130.6 |

| DataSafe HX Battery Type | Standby Time (Minutes) | | | | | | |
|-----------------------------|------------------------|-------|-------|-------|-------|-------|------|
| | 5 | 10 | 15 | 20 | 30 | 45 | 60 |
| 12HX25 | 27.3 | 16.9 | 12.4 | 9.77 | 6.96 | 4.98 | 3.89 |
| 12HX35 | 40.6 | 25.8 | 19.2 | 15.2 | 10.9 | 7.80 | 6.11 |
| 12HX50 | 61.7 | 39.0 | 29.1 | 23.2 | 16.8 | 11.9 | 9.26 |
| 12HX80 | 86.4 | 57.3 | 43.2 | 34.4 | 24.5 | 17.4 | 13.6 |
| 12HX105 | 114.8 | 75.4 | 56.7 | 45.6 | 33.2 | 23.9 | 18.9 |
| 12HX100S | 101.1 | 74.6 | 58.7 | 48.4 | 36.2 | 26.4 | 20.9 |
| 12HX135 | 145.1 | 96.3 | 72.8 | 58.6 | 42.7 | 30.8 | 24.3 |
| 12HX150 | 166.2 | 113.9 | 86.2 | 70.6 | 51.8 | 37.5 | 29.5 |
| 12HX205 | 227.0 | 148.5 | 110.3 | 87.6 | 62.3 | 44.0 | 34.4 |
| 12HX300 | 310.0 | 203.6 | 154.2 | 123.6 | 92.7 | 66.7 | 52.8 |
| 12HX330 | 355.0 | 238.4 | 183.1 | 148.5 | 108.7 | 78.3 | 61.7 |
| 12HX400 | 403.9 | 272.9 | 206.7 | 168.3 | 122.2 | 89.0 | 70.4 |
| 12HX505 | 492.5 | 359.2 | 275.5 | 223.4 | 160.3 | 114.3 | 89.6 |
| 12HX540 | 521.5 | 380.5 | 293.8 | 239.2 | 174.4 | 124.3 | 97.4 |

Constant Current Discharge Performance Data

Discharge Current (Amperes) to 1.67Vpc at 25°C/77°F

| DataSafe HX+ Battery Type | Standby Time (Minutes) | | | | | | |
|------------------------------|------------------------|-------|-------|-------|-------|-------|-------|
| | 5 | 10 | 15 | 20 | 30 | 45 | 60 |
| 12HX385+ | 402.0 | 280.5 | 211.9 | 169.4 | 122.1 | 87.22 | 68.58 |
| 12HX450+ | 469.5 | 327.4 | 247.3 | 197.7 | 142.4 | 101.7 | 79.96 |
| 12HX530+ | 516.4 | 380.2 | 296.0 | 240.8 | 175.3 | 126.1 | 99.45 |
| 12HX600+ | 587.2 | 431.7 | 335.1 | 272.5 | 198.1 | 142.4 | 112.2 |
| 12HX650F-FR+ | 647.3 | 467.7 | 360.1 | 292.2 | 215.1 | 156.5 | 124.5 |
| 12HX700F-FR+ | 662.9 | 498.5 | 391.5 | 318.7 | 230.9 | 165.6 | 130.6 |

| DataSafe HX Battery Type | Standby Time (Minutes) | | | | | | |
|-----------------------------|------------------------|-------|-------|-------|-------|-------|------|
| | 5 | 10 | 15 | 20 | 30 | 45 | 60 |
| 12HX25 | 28.0 | 17.1 | 12.4 | 9.77 | 6.96 | 4.98 | 3.89 |
| 12HX35 | 41.4 | 25.8 | 19.2 | 15.2 | 10.9 | 7.80 | 6.11 |
| 12HX50 | 63.4 | 39.5 | 29.1 | 23.2 | 16.8 | 11.9 | 9.26 |
| 12HX80 | 89.3 | 58.1 | 43.2 | 34.4 | 24.5 | 17.4 | 13.6 |
| 12HX105 | 119.3 | 76.8 | 57.5 | 46.0 | 33.4 | 24.0 | 18.9 |
| 12HX100S | 106.2 | 76.9 | 59.9 | 49.2 | 36.4 | 26.4 | 20.9 |
| 12HX135 | 149.2 | 97.0 | 72.8 | 58.6 | 42.7 | 30.8 | 24.3 |
| 12HX150 | 173.8 | 117.0 | 87.6 | 70.9 | 51.8 | 37.5 | 29.5 |
| 12HX205 | 236.8 | 153.6 | 111.0 | 87.6 | 62.3 | 44.0 | 34.4 |
| 12HX300 | 320.3 | 207.0 | 154.3 | 123.6 | 92.7 | 66.7 | 52.8 |
| 12HX330 | 366.2 | 242.3 | 183.2 | 148.5 | 108.7 | 78.3 | 61.7 |
| 12HX400 | 416.0 | 277.7 | 206.8 | 168.3 | 122.2 | 89.0 | 70.4 |
| 12HX505 | 518.6 | 371.1 | 281.0 | 223.7 | 160.3 | 114.3 | 89.6 |
| 12HX540 | 548.3 | 392.7 | 300.4 | 242.9 | 174.4 | 124.3 | 97.4 |

Discharge Current (Amperes) to 1.65Vpc at 25°C/77°F

| DataSafe HX+ Battery Type | Standby Time (Minutes) | | | | | | |
|------------------------------|------------------------|-------|-------|-------|-------|-------|-------|
| | 5 | 10 | 15 | 20 | 30 | 45 | 60 |
| 12HX385+ | 413.0 | 284.4 | 212.8 | 169.4 | 122.1 | 87.22 | 68.58 |
| 12HX450+ | 482.4 | 331.9 | 248.3 | 197.7 | 142.4 | 101.7 | 79.96 |
| 12HX530+ | 531.3 | 387.3 | 298.6 | 241.0 | 175.3 | 126.1 | 99.45 |
| 12HX600+ | 604.0 | 439.6 | 338.1 | 272.6 | 198.1 | 142.4 | 112.2 |
| 12HX650F-FR+ | 663.7 | 473.2 | 360.6 | 292.2 | 215.1 | 156.5 | 124.5 |
| 12HX700F-FR+ | 681.8 | 507.6 | 395.9 | 319.2 | 230.9 | 165.6 | 130.6 |

| DataSafe HX Battery Type | Standby Time (Minutes) | | | | | | |
|-----------------------------|------------------------|-------|-------|-------|-------|-------|------|
| | 5 | 10 | 15 | 20 | 30 | 45 | 60 |
| 12HX25 | 28.4 | 17.1 | 12.4 | 9.77 | 6.96 | 4.98 | 3.89 |
| 12HX35 | 41.8 | 25.8 | 19.2 | 15.2 | 10.9 | 7.80 | 6.11 |
| 12HX50 | 64.4 | 39.5 | 29.1 | 23.2 | 16.8 | 11.9 | 9.26 |
| 12HX80 | 90.8 | 58.1 | 43.2 | 34.4 | 24.5 | 17.4 | 13.6 |
| 12HX105 | 122.0 | 77.6 | 57.9 | 46.2 | 33.4 | 24.0 | 18.9 |
| 12HX100S | 109.4 | 78.2 | 60.5 | 49.5 | 36.4 | 26.4 | 20.9 |
| 12HX135 | 151.3 | 97.0 | 72.8 | 58.6 | 42.7 | 30.8 | 24.3 |
| 12HX150 | 178.3 | 118.7 | 87.8 | 70.9 | 51.8 | 37.5 | 29.5 |
| 12HX205 | 242.5 | 153.5 | 111.0 | 87.6 | 62.3 | 44.0 | 34.4 |
| 12HX300 | 325.6 | 207.5 | 154.3 | 123.6 | 92.7 | 66.7 | 52.8 |
| 12HX330 | 372.1 | 242.8 | 183.2 | 148.5 | 108.7 | 78.3 | 61.7 |
| 12HX400 | 422.3 | 278.4 | 206.8 | 168.3 | 122.2 | 89.0 | 70.4 |
| 12HX505 | 535.0 | 377.7 | 282.1 | 223.7 | 160.3 | 114.3 | 89.6 |
| 12HX540 | 565.2 | 399.7 | 304.2 | 242.9 | 174.4 | 124.3 | 97.4 |

Constant Current Discharge Performance Data

Discharge Current (Amperes) to 1.63Vpc at 25°C/77°F

| DataSafe HX+ Battery Type | Standby Time (Minutes) | | | | | | |
|------------------------------|------------------------|-------|-------|-------|-------|-------|-------|
| | 5 | 10 | 15 | 20 | 30 | 45 | 60 |
| 12HX385+ | 423.3 | 287.6 | 212.8 | 169.4 | 122.1 | 87.22 | 68.58 |
| 12HX450+ | 494.4 | 335.7 | 248.3 | 197.7 | 142.4 | 101.7 | 79.96 |
| 12HX530+ | 545.4 | 393.2 | 300.0 | 241.0 | 175.3 | 126.1 | 99.45 |
| 12HX600+ | 620.7 | 446.1 | 339.6 | 272.6 | 198.1 | 142.4 | 112.2 |
| 12HX650F-FR+ | 678.0 | 477.5 | 360.6 | 292.2 | 215.1 | 156.5 | 124.5 |
| 12HX700F-FR+ | 699.9 | 515.4 | 399.3 | 319.2 | 230.9 | 165.6 | 130.6 |

| DataSafe HX Battery Type | Standby Time (Minutes) | | | | | | |
|-----------------------------|------------------------|-------|-------|-------|-------|-------|------|
| | 5 | 10 | 15 | 20 | 30 | 45 | 60 |
| 12HX25 | 28.8 | 17.1 | 12.4 | 9.77 | 6.96 | 4.98 | 3.89 |
| 12HX35 | 42.1 | 25.8 | 19.2 | 15.2 | 10.9 | 7.80 | 6.11 |
| 12HX50 | 65.2 | 39.5 | 29.1 | 23.2 | 16.8 | 11.9 | 9.26 |
| 12HX80 | 92.0 | 58.1 | 43.2 | 34.4 | 24.5 | 17.4 | 13.6 |
| 12HX105 | 124.4 | 78.2 | 58.0 | 46.2 | 33.4 | 24.0 | 18.9 |
| 12HX100S | 112.4 | 79.2 | 61.0 | 49.5 | 36.4 | 26.4 | 20.9 |
| 12HX135 | 152.9 | 97.0 | 72.8 | 58.6 | 42.7 | 30.8 | 24.3 |
| 12HX150 | 182.3 | 120.0 | 87.8 | 70.9 | 51.8 | 37.5 | 29.5 |
| 12HX205 | 247.5 | 154.2 | 111.0 | 87.6 | 62.3 | 44.0 | 34.4 |
| 12HX300 | 330.1 | 207.5 | 154.3 | 123.6 | 92.7 | 66.7 | 52.8 |
| 12HX330 | 377.0 | 242.8 | 183.2 | 148.5 | 108.7 | 78.3 | 61.7 |
| 12HX400 | 427.5 | 278.4 | 206.8 | 168.3 | 122.2 | 89.0 | 70.4 |
| 12HX505 | 550.6 | 383.3 | 282.1 | 223.7 | 160.3 | 114.3 | 89.6 |
| 12HX540 | 581.3 | 405.9 | 305.3 | 242.9 | 174.4 | 124.3 | 97.4 |

Discharge Current (Amperes) to 1.60Vpc at 25°C/77°F

| DataSafe HX+ Battery Type | Standby Time (Minutes) | | | | | | |
|------------------------------|------------------------|-------|-------|-------|-------|-------|-------|
| | 5 | 10 | 15 | 20 | 30 | 45 | 60 |
| 12HX385+ | 437.7 | 291.0 | 212.8 | 169.4 | 122.1 | 87.22 | 68.58 |
| 12HX450+ | 511.3 | 339.7 | 248.3 | 197.7 | 142.4 | 101.7 | 79.96 |
| 12HX530+ | 565.3 | 400.2 | 300.0 | 241.0 | 175.3 | 126.1 | 99.45 |
| 12HX600+ | 643.8 | 453.6 | 339.6 | 272.6 | 198.1 | 142.4 | 112.2 |
| 12HX650F-FR+ | 695.3 | 479.9 | 360.6 | 292.2 | 215.1 | 156.5 | 124.5 |
| 12HX700F-FR+ | 725.6 | 525.3 | 400.5 | 319.2 | 230.9 | 165.6 | 130.6 |

| DataSafe HX Battery Type | Standby Time (Minutes) | | | | | | |
|-----------------------------|------------------------|-------|-------|-------|-------|-------|------|
| | 5 | 10 | 15 | 20 | 30 | 45 | 60 |
| 12HX25 | 29.1 | 17.1 | 12.4 | 9.77 | 6.96 | 4.98 | 3.89 |
| 12HX35 | 42.1 | 25.8 | 19.2 | 15.2 | 10.9 | 7.80 | 6.11 |
| 12HX50 | 66.2 | 39.5 | 29.1 | 23.2 | 16.8 | 11.9 | 9.26 |
| 12HX80 | 93.6 | 58.1 | 43.2 | 34.4 | 24.5 | 17.4 | 13.6 |
| 12HX105 | 127.4 | 78.6 | 58.0 | 46.2 | 33.4 | 24.0 | 18.9 |
| 12HX100S | 116.2 | 80.4 | 61.1 | 49.5 | 36.4 | 26.4 | 20.9 |
| 12HX135 | 154.7 | 97.0 | 72.8 | 58.6 | 42.7 | 30.8 | 24.3 |
| 12HX150 | 187.7 | 120.7 | 87.8 | 70.9 | 51.8 | 37.5 | 29.5 |
| 12HX205 | 254.0 | 154.2 | 111.0 | 87.6 | 62.3 | 44.0 | 34.4 |
| 12HX300 | 335.5 | 207.5 | 154.3 | 123.6 | 92.7 | 66.7 | 52.8 |
| 12HX330 | 382.9 | 242.8 | 183.2 | 148.5 | 108.7 | 78.3 | 61.7 |
| 12HX400 | 433.9 | 278.4 | 206.8 | 168.3 | 122.2 | 89.0 | 70.4 |
| 12HX505 | 572.6 | 390.4 | 282.1 | 223.7 | 160.3 | 114.3 | 89.6 |
| 12HX540 | 603.5 | 413.9 | 305.3 | 242.9 | 174.4 | 124.3 | 97.4 |



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