



# Battery Performance Data



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## Constant Power Discharge Performance Data

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

| Battery Type | Standby Time (Minutes) |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|--------------|------------------------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|              | 0.5                    | 1    | 2    | 3    | 4    | 5    | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 20  | 30  | 45  | 60  |
| 12XE760-FR   | 1243                   | 1147 | 975  | 859  | 772  | 702  | 643 | 593 | 550 | 513 | 483 | 456 | 432 | 410 | 390 | 373 | 309 | 230 | 170 | 136 |
| 12XE1040-FR  | 1259                   | 1259 | 1187 | 1101 | 1022 | 930  | 845 | 772 | 727 | 692 | 660 | 630 | 602 | 577 | 551 | 527 | 436 | 328 | 241 | 193 |
| 12XE1010F-FR | 1178                   | 1178 | 1127 | 1038 | 963  | 897  | 840 | 789 | 744 | 704 | 672 | 643 | 617 | 592 | 570 | 548 | 462 | 353 | 266 | 214 |
| 12XE1110F-FR | 1262                   | 1262 | 1228 | 1141 | 1066 | 1000 | 942 | 890 | 843 | 802 | 766 | 733 | 703 | 675 | 649 | 626 | 530 | 410 | 308 | 246 |
| 12XE1150F-FR | 1262                   | 1262 | 1227 | 1156 | 1095 | 1042 | 996 | 954 | 907 | 863 | 822 | 785 | 750 | 718 | 688 | 665 | 569 | 439 | 329 | 264 |

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

| Battery Type | Standby Time (Minutes) |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |
|--------------|------------------------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|              | 0.5                    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 20  | 30  | 45  | 60  |
| 12XE760-FR   | 1385                   | 1279 | 1073 | 930  | 823  | 744  | 678  | 623  | 576 | 536 | 501 | 472 | 447 | 424 | 403 | 384 | 316 | 234 | 173 | 137 |
| 12XE1040-FR  | 1417                   | 1407 | 1292 | 1198 | 1091 | 987  | 904  | 834  | 773 | 730 | 694 | 660 | 629 | 601 | 575 | 550 | 451 | 337 | 246 | 196 |
| 12XE1010F-FR | 1278                   | 1278 | 1216 | 1146 | 1051 | 972  | 904  | 844  | 791 | 743 | 701 | 667 | 637 | 610 | 585 | 562 | 470 | 357 | 266 | 214 |
| 12XE1110F-FR | 1388                   | 1388 | 1312 | 1243 | 1152 | 1073 | 1005 | 945  | 891 | 843 | 799 | 761 | 728 | 697 | 669 | 643 | 540 | 413 | 308 | 246 |
| 12XE1150F-FR | 1440                   | 1440 | 1337 | 1248 | 1175 | 1112 | 1059 | 1010 | 966 | 926 | 879 | 835 | 795 | 759 | 725 | 694 | 586 | 449 | 333 | 265 |

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

| Battery Type | Standby Time (Minutes) |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |
|--------------|------------------------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|              | 0.5                    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8   | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 20  | 30  | 45  | 60  |
| 12XE760-FR   | 1425                   | 1327 | 1121 | 967  | 851  | 763  | 695  | 637  | 589 | 547 | 510 | 480 | 454 | 430 | 409 | 389 | 319 | 236 | 174 | 138 |
| 12XE1040-FR  | 1524                   | 1485 | 1358 | 1256 | 1145 | 1040 | 951  | 875  | 809 | 751 | 711 | 676 | 643 | 613 | 585 | 560 | 458 | 340 | 248 | 197 |
| 12XE1010F-FR | 1329                   | 1322 | 1244 | 1177 | 1097 | 1010 | 935  | 869  | 812 | 761 | 716 | 676 | 644 | 616 | 590 | 566 | 472 | 357 | 266 | 214 |
| 12XE1110F-FR | 1457                   | 1432 | 1343 | 1270 | 1195 | 1109 | 1035 | 970  | 913 | 860 | 814 | 772 | 737 | 705 | 676 | 649 | 541 | 413 | 308 | 246 |
| 12XE1150F-FR | 1524                   | 1514 | 1397 | 1298 | 1218 | 1150 | 1091 | 1038 | 992 | 947 | 905 | 858 | 814 | 775 | 739 | 706 | 592 | 452 | 333 | 265 |

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

| Battery Type | Standby Time (Minutes) |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |
|--------------|------------------------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|              | 0.5                    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 20  | 30  | 45  | 60  |
| 12XE760-FR   | 1449                   | 1346 | 1149 | 987  | 865  | 774  | 703  | 645  | 595  | 552 | 515 | 484 | 457 | 433 | 412 | 392 | 321 | 237 | 174 | 138 |
| 12XE1040-FR  | 1592                   | 1533 | 1400 | 1289 | 1185 | 1074 | 980  | 900  | 830  | 770 | 721 | 684 | 651 | 620 | 591 | 565 | 461 | 341 | 248 | 197 |
| 12XE1010F-FR | 1361                   | 1347 | 1262 | 1190 | 1125 | 1031 | 953  | 884  | 824  | 771 | 724 | 682 | 647 | 618 | 592 | 568 | 472 | 357 | 266 | 214 |
| 12XE1110F-FR | 1503                   | 1460 | 1362 | 1284 | 1218 | 1130 | 1052 | 985  | 923  | 869 | 821 | 777 | 740 | 708 | 678 | 650 | 542 | 413 | 308 | 246 |
| 12XE1150F-FR | 1564                   | 1546 | 1436 | 1331 | 1244 | 1172 | 1111 | 1056 | 1006 | 960 | 916 | 869 | 823 | 782 | 745 | 712 | 595 | 452 | 333 | 265 |

## Constant Power Discharge Performance Data

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

| Battery Type | Standby Time (Minutes) |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |
|--------------|------------------------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|              | 0.5                    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 20  | 30  | 45  | 60  |
| 12XE760-FR   | 1465                   | 1366 | 1174 | 1005 | 878  | 783  | 710  | 651  | 600  | 557 | 519 | 486 | 459 | 435 | 414 | 394 | 322 | 238 | 174 | 138 |
| 12XE1040-FR  | 1592                   | 1574 | 1438 | 1319 | 1218 | 1107 | 1007 | 922  | 850  | 786 | 732 | 693 | 658 | 625 | 596 | 569 | 464 | 342 | 249 | 198 |
| 12XE1010F-FR | 1393                   | 1369 | 1277 | 1202 | 1137 | 1051 | 968  | 897  | 835  | 779 | 730 | 687 | 649 | 620 | 593 | 569 | 472 | 357 | 266 | 214 |
| 12XE1110F-FR | 1528                   | 1486 | 1378 | 1295 | 1227 | 1149 | 1068 | 996  | 932  | 875 | 825 | 782 | 742 | 709 | 678 | 651 | 542 | 413 | 308 | 246 |
| 12XE1150F-FR | 1588                   | 1577 | 1468 | 1360 | 1270 | 1194 | 1129 | 1071 | 1019 | 970 | 924 | 877 | 830 | 788 | 751 | 717 | 597 | 452 | 333 | 265 |

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

| Battery Type | Standby Time (Minutes) |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |
|--------------|------------------------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|              | 0.5                    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 20  | 30  | 45  | 60  |
| 12XE760-FR   | 1488                   | 1388 | 1204 | 1025 | 893  | 794  | 718  | 656  | 605  | 561 | 523 | 490 | 461 | 437 | 415 | 395 | 322 | 238 | 174 | 138 |
| 12XE1040-FR  | 1592                   | 1574 | 1482 | 1349 | 1247 | 1154 | 1041 | 949  | 873  | 807 | 750 | 704 | 666 | 633 | 602 | 574 | 467 | 344 | 250 | 198 |
| 12XE1010F-FR | 1442                   | 1403 | 1297 | 1216 | 1147 | 1077 | 989  | 913  | 847  | 789 | 737 | 692 | 652 | 621 | 594 | 569 | 472 | 357 | 266 | 214 |
| 12XE1110F-FR | 1528                   | 1501 | 1401 | 1310 | 1237 | 1172 | 1085 | 1008 | 940  | 882 | 831 | 785 | 744 | 710 | 679 | 651 | 542 | 413 | 308 | 246 |
| 12XE1150F-FR | 1588                   | 1579 | 1502 | 1402 | 1304 | 1223 | 1153 | 1092 | 1036 | 983 | 933 | 884 | 837 | 795 | 758 | 724 | 599 | 452 | 333 | 265 |

### Constant Power (Watts per cell) at 25°C/77°F to 1.55Vpc

| Battery Type | Standby Time (Minutes) |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |
|--------------|------------------------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|              | 0.5                    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9   | 10  | 11  | 12  | 13  | 14  | 15  | 20  | 30  | 45  | 60  |
| 12XE760-FR   | 1515                   | 1404 | 1234 | 1044 | 905  | 802  | 723  | 660  | 608  | 563 | 525 | 491 | 462 | 438 | 416 | 396 | 322 | 238 | 174 | 138 |
| 12XE1040-FR  | 1592                   | 1574 | 1493 | 1364 | 1259 | 1173 | 1072 | 976  | 897  | 829 | 770 | 720 | 678 | 643 | 612 | 584 | 474 | 349 | 253 | 201 |
| 12XE1010F-FR | 1496                   | 1454 | 1325 | 1234 | 1159 | 1093 | 1015 | 933  | 861  | 799 | 742 | 694 | 652 | 621 | 594 | 569 | 472 | 357 | 266 | 214 |
| 12XE1110F-FR | 1528                   | 1501 | 1431 | 1328 | 1249 | 1179 | 1100 | 1018 | 948  | 887 | 834 | 787 | 745 | 710 | 679 | 651 | 542 | 413 | 308 | 246 |
| 12XE1150F-FR | 1588                   | 1579 | 1528 | 1447 | 1355 | 1265 | 1188 | 1119 | 1057 | 998 | 943 | 892 | 847 | 805 | 767 | 732 | 599 | 452 | 333 | 265 |

### Constant Power (Watts per cell) at 25°C/77°F to 1.50Vpc

| Battery Type | Standby Time (Minutes) |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |     |     |     |
|--------------|------------------------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|              | 0.5                    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10  | 11  | 12  | 13  | 14  | 15  | 20  | 30  | 45  | 60  |
| 12XE760-FR   | 1516                   | 1405 | 1234 | 1048 | 907  | 803  | 723  | 660  | 608  | 563  | 525 | 492 | 462 | 438 | 416 | 396 | 322 | 238 | 174 | 138 |
| 12XE1040-FR  | 1592                   | 1574 | 1493 | 1364 | 1259 | 1173 | 1082 | 986  | 906  | 837  | 778 | 727 | 683 | 647 | 616 | 587 | 477 | 351 | 255 | 203 |
| 12XE1010F-FR | 1496                   | 1467 | 1350 | 1243 | 1164 | 1095 | 1032 | 944  | 865  | 799  | 742 | 694 | 652 | 621 | 594 | 569 | 472 | 357 | 266 | 214 |
| 12XE1110F-FR | 1528                   | 1501 | 1434 | 1339 | 1254 | 1180 | 1106 | 1022 | 951  | 888  | 834 | 787 | 745 | 710 | 679 | 651 | 542 | 413 | 308 | 246 |
| 12XE1150F-FR | 1588                   | 1579 | 1528 | 1471 | 1386 | 1298 | 1214 | 1139 | 1070 | 1007 | 951 | 900 | 854 | 810 | 769 | 732 | 599 | 452 | 333 | 265 |