

XP

# XPOWER®



XPower Technology Corp.



With the care and support from our customer, the quality of XPower brand VRLA battery has been improved and the technical performance arts and crafts performance have also been improved and developed, On the base of experiences of NXP battery's Manufacturing and operating, We developed the NXP series products adopting international new AGM technology-they can operated and charged without restrictions in sensitive surroundings.

#### APPLICATIONS

- Telecommunications
- Solar powered systems
- Uninterruptible Power systems
- Railroad Signal and communications
- Alarm systems
- Marine equipments
- Electronic switching systems
- Emergency lighting

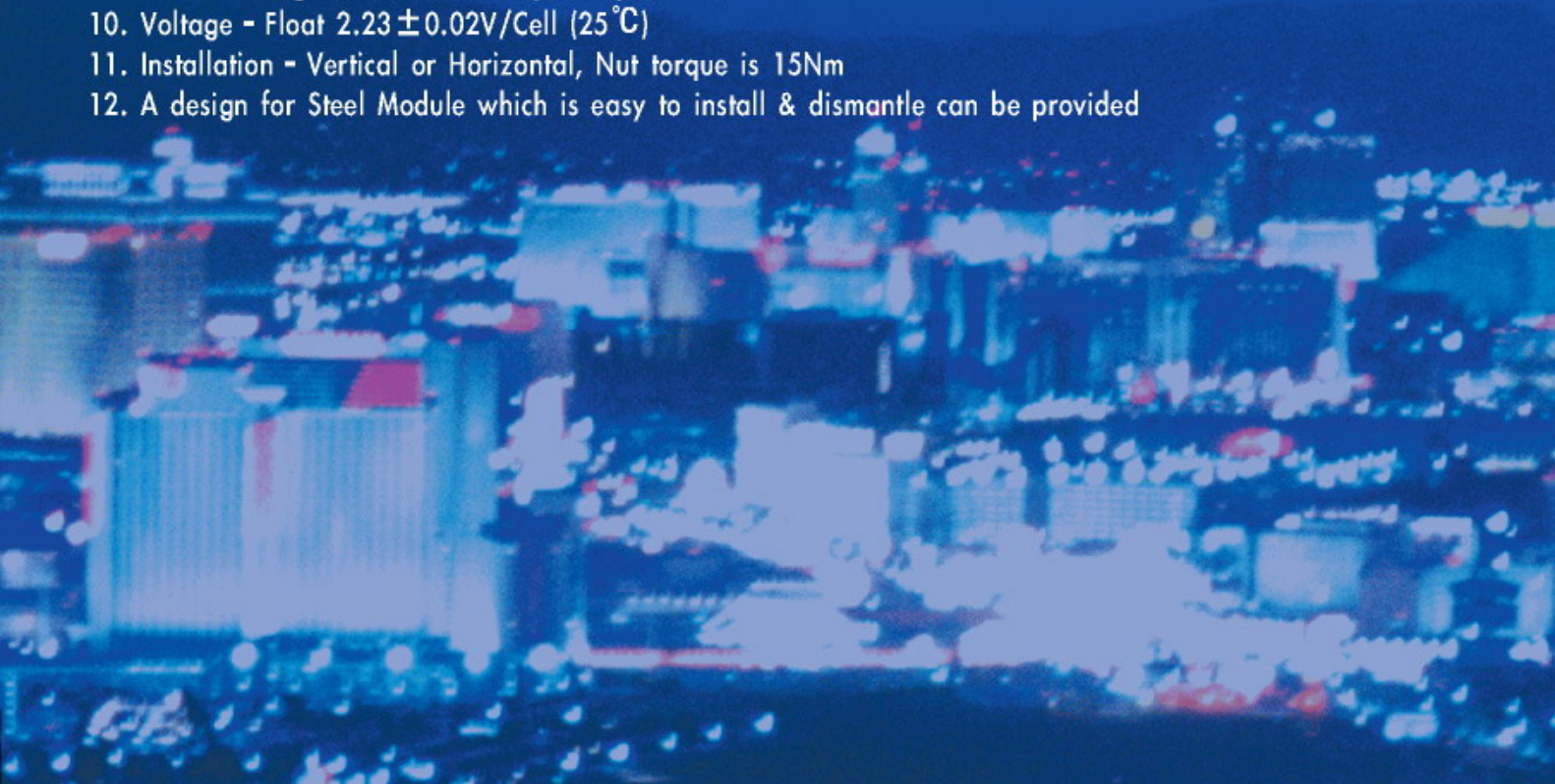
#### PRODUCT FEATURES

- Valve Regulated Lead-Acid battery
- Reliable sealing technology
- Long design life (15 years at 25°C)
- GAS venting systems (99.9%)
- Cycling performance (1200 cycles to 80% D.O.D.)
- Absorbive glassmat systems (AGM)
- Container and cover-ABS UL94 V-0/28% L.O.I.

### POWERFUL, RELIABLE, ECONOMIC, EFFICIENT

#### CELL SPECIFICATIONS

1. Voltage - 2V ( single cell )
2. Container and Cover - Flame retardant, UL94 V-0/28% L.O.I.
3. Plate - Pb-Ca grid alloy with special patented
4. Separators - Spun glass mat
5. Terminal - Copper insert post M8, protected by plastic cover
6. Safe Vent - 12~20kpa
7. Electrolyte -  $<1.300@25^{\circ}\text{C}$
8. Design life - 15 years in float application (25°C)
9. Self - Discharge rate -  $<0.08\%$  per day (25°C)
10. Voltage - Float  $2.23 \pm 0.02\text{V/Cell}$  (25°C)
11. Installation - Vertical or Horizontal, Nut torque is 15Nm
12. A design for Steel Module which is easy to install & dismantle can be provided



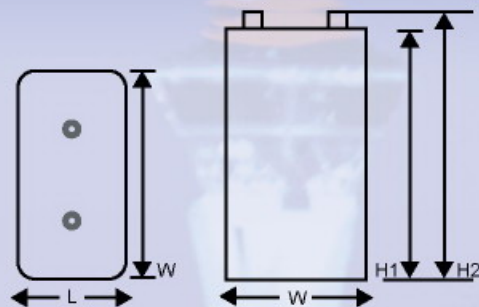
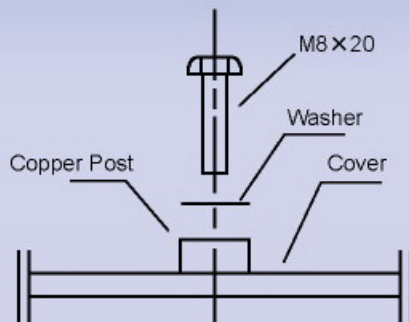
## SPECIFICATIONS

| CELL TYPE | Nominal Voltage (V) | Rated Capacity (Ah)   |                      |                      | Dimensions (mm) |           |             |                     | Weight (kg) |
|-----------|---------------------|-----------------------|----------------------|----------------------|-----------------|-----------|-------------|---------------------|-------------|
|           |                     | C <sub>10</sub> 1.80V | C <sub>3</sub> 1.80V | C <sub>1</sub> 1.75V | Length (L)      | Width (W) | Height (H1) | Overall Height (H2) |             |
| NXP 200   | 2                   | 200                   | 150                  | 110                  | 94              | 184       | 360         | 372                 | 14.3        |
| NXP 250   | 2                   | 260                   | 195                  | 145                  | 109             | 184       | 360         | 372                 | 17          |
| NXP 300   | 2                   | 300                   | 225                  | 165                  | 123             | 184       | 360         | 372                 | 19          |
| NXP 400   | 2                   | 400                   | 300                  | 225                  | 166             | 184       | 360         | 372                 | 26          |
| NXP 500   | 2                   | 500                   | 375                  | 280                  | 194             | 184       | 360         | 372                 | 31          |
| NXP 600   | 2                   | 600                   | 450                  | 335                  | 223             | 184       | 360 <td 372 | 37                  |             |
| NXP 800   | 2                   | 800                   | 600                  | 440                  | 154             | 229       | 555         | 566                 | 52          |
| NXP 1000  | 2                   | 1000                  | 780                  | 550                  | 186             | 229       | 555         | 566                 | 62          |
| NXP 1200  | 2                   | 1200                  | 940                  | 660                  | 225             | 229       | 555         | 566                 | 75          |
| NXP 1500  | 2                   | 1500                  | 1150                 | 825                  | 265             | 229       | 555         | 566                 | 92          |
| NXP 2000  | 2                   | 2000                  | 1530                 | 1100                 | 349             | 233       | 555         | 566                 | 121         |

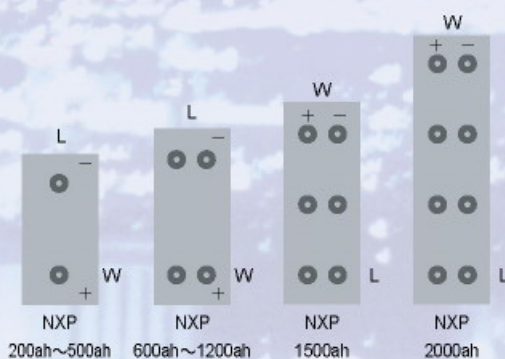
The container and cover of above batteries are ABS material to meet UL-94HB or UL-94V0 according customer's request.

## Dimensions(mm)

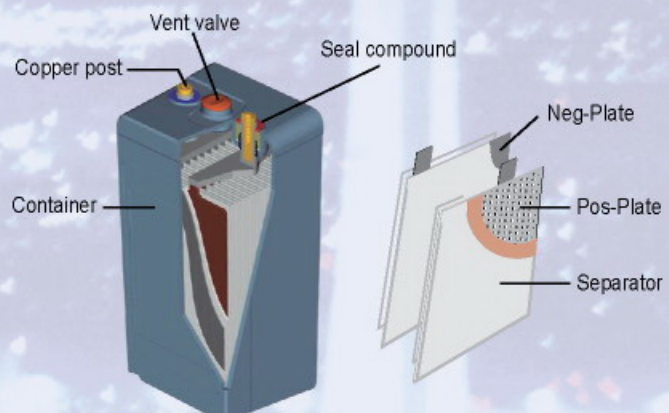
### NXP-400 Optional type



### Layout



### Construction



**1.60Volt / cell Discharge in Amps(at 25°C)**

| CELL TYPE | DISCHARGE TIME |       |       |      |     |     |     |     |     |     |     |
|-----------|----------------|-------|-------|------|-----|-----|-----|-----|-----|-----|-----|
|           | 5Min           | 15Min | 30Min | 1H   | 2H  | 3H  | 5H  | 6H  | 8H  | 10H | 24H |
| NXP 200   | 333            | 279   | 206   | 130  | 77  | 66  | 38  | 33  | 26  | 21  | 9   |
| NXP 250   | 433            | 362   | 268   | 169  | 100 | 73  | 49  | 43  | 34  | 28  | 12  |
| NXP 300   | 500            | 418   | 310   | 196  | 115 | 84  | 57  | 49  | 39  | 32  | 14  |
| NXP 400   | 666            | 558   | 413   | 261  | 154 | 113 | 76  | 66  | 52  | 43  | 19  |
| NXP 500   | 833            | 697   | 516   | 326  | 192 | 141 | 95  | 82  | 65  | 54  | 24  |
| NXP 600   | 999            | 837   | 620   | 392  | 231 | 169 | 115 | 99  | 79  | 65  | 29  |
| NXP 800   | 1158           | 974   | 792   | 521  | 320 | 235 | 154 | 132 | 103 | 86  | 39  |
| NXP 1000  | 1447           | 1218  | 990   | 652  | 401 | 294 | 192 | 165 | 129 | 107 | 49  |
| NXP 1200  | 1738           | 1462  | 1188  | 782  | 481 | 353 | 231 | 199 | 155 | 129 | 59  |
| NXP 1500  | 2171           | 1827  | 1485  | 978  | 601 | 441 | 288 | 248 | 194 | 161 | 74  |
| NXP 2000  | 2895           | 2436  | 1980  | 1304 | 801 | 588 | 384 | 331 | 259 | 215 | 99  |

**1.65Volt / cell Discharge in Amps(at 25°C)**

| CELL TYPE | DISCHARGE TIME |       |       |      |     |     |     |     |     |     |     |
|-----------|----------------|-------|-------|------|-----|-----|-----|-----|-----|-----|-----|
|           | 5Min           | 15Min | 30Min | 1H   | 2H  | 3H  | 5H  | 6H  | 8H  | 10H | 24H |
| NXP 200   | 307            | 260   | 198   | 123  | 75  | 65  | 37  | 32  | 26  | 21  | 9   |
| NXP 250   | 400            | 338   | 257   | 161  | 97  | 71  | 48  | 42  | 33  | 28  | 12  |
| NXP 300   | 461            | 390   | 297   | 185  | 112 | 82  | 56  | 48  | 39  | 32  | 14  |
| NXP 400   | 615            | 520   | 396   | 247  | 150 | 110 | 74  | 65  | 52  | 43  | 19  |
| NXP 500   | 769            | 650   | 495   | 309  | 188 | 137 | 93  | 81  | 65  | 54  | 24  |
| NXP 600   | 923            | 780   | 594   | 371  | 225 | 165 | 112 | 97  | 78  | 65  | 29  |
| NXP 800   | 1086           | 917   | 722   | 492  | 311 | 229 | 152 | 131 | 103 | 85  | 39  |
| NXP 1000  | 1357           | 1146  | 902   | 615  | 389 | 286 | 190 | 163 | 128 | 106 | 49  |
| NXP 1200  | 1629           | 1376  | 1084  | 739  | 467 | 343 | 228 | 196 | 154 | 128 | 58  |
| NXP 1500  | 2036           | 1720  | 1354  | 923  | 584 | 429 | 285 | 245 | 193 | 160 | 73  |
| NXP 2000  | 2715           | 2293  | 1805  | 1231 | 779 | 572 | 380 | 327 | 257 | 213 | 98  |

**1.70Volt / cell Discharge in Amps(at 25°C)**

| CELL TYPE | DISCHARGE TIME |       |       |      |     |     |     |     |     |     |     |
|-----------|----------------|-------|-------|------|-----|-----|-----|-----|-----|-----|-----|
|           | 5Min           | 15Min | 30Min | 1H   | 2H  | 3H  | 5H  | 6H  | 8H  | 10H | 24H |
| NXP 200   | 287            | 244   | 182   | 118  | 72  | 63  | 37  | 32  | 25  | 21  | 9   |
| NXP 250   | 374            | 317   | 236   | 153  | 94  | 69  | 48  | 41  | 33  | 27  | 12  |
| NXP 300   | 431            | 366   | 273   | 177  | 108 | 80  | 55  | 48  | 38  | 32  | 14  |
| NXP 400   | 575            | 488   | 364   | 236  | 144 | 107 | 74  | 64  | 51  | 42  | 19  |
| NXP 500   | 719            | 610   | 455   | 296  | 181 | 133 | 92  | 80  | 63  | 53  | 24  |
| NXP 600   | 863            | 732   | 546   | 355  | 217 | 160 | 111 | 96  | 76  | 64  | 28  |
| NXP 800   | 1020           | 868   | 660   | 468  | 301 | 218 | 148 | 127 | 101 | 84  | 39  |
| NXP 1000  | 1276           | 1085  | 825   | 585  | 376 | 273 | 185 | 159 | 126 | 105 | 48  |
| NXP 1200  | 1531           | 1302  | 990   | 707  | 451 | 328 | 222 | 191 | 152 | 126 | 58  |
| NXP 1500  | 1914           | 1627  | 1238  | 878  | 564 | 410 | 278 | 239 | 190 | 157 | 73  |
| NXP 2000  | 2552           | 2170  | 1651  | 1170 | 752 | 547 | 370 | 319 | 253 | 210 | 97  |

**1.75Volt / cell Discharge in Amps(at 25°C)**

| CELL TYPE | DISCHARGE TIME |       |       |      |     |     |     |     |     |     |     |
|-----------|----------------|-------|-------|------|-----|-----|-----|-----|-----|-----|-----|
|           | 5Min           | 15Min | 30Min | 1H   | 2H  | 3H  | 5H  | 6H  | 8H  | 10H | 24H |
| NXP 200   | 274            | 231   | 169   | 112  | 69  | 61  | 36  | 31  | 25  | 21  | 9   |
| NXP 250   | 356            | 300   | 220   | 146  | 90  | 67  | 46  | 41  | 32  | 27  | 12  |
| NXP 300   | 411            | 346   | 253   | 169  | 104 | 77  | 54  | 47  | 37  | 31  | 14  |
| NXP 400   | 548            | 462   | 338   | 225  | 139 | 103 | 72  | 63  | 50  | 42  | 19  |
| NXP 500   | 685            | 577   | 423   | 282  | 174 | 129 | 90  | 79  | 63  | 52  | 23  |
| NXP 600   | 822            | 693   | 507   | 338  | 209 | 155 | 108 | 95  | 75  | 63  | 28  |
| NXP 800   | 963            | 817   | 609   | 441  | 289 | 213 | 145 | 126 | 100 | 83  | 38  |
| NXP 1000  | 1203           | 1021  | 761   | 552  | 362 | 267 | 182 | 157 | 125 | 104 | 48  |
| NXP 1200  | 1444           | 1226  | 913   | 662  | 434 | 320 | 218 | 189 | 150 | 125 | 58  |
| NXP 1500  | 1805           | 1532  | 1142  | 828  | 543 | 401 | 273 | 236 | 187 | 156 | 72  |
| NXP 2000  | 2407           | 2042  | 1522  | 1104 | 724 | 534 | 364 | 315 | 250 | 208 | 96  |

**1.80Volt / cell Discharge in Amps(at 25 °C)**

| CELL TYPE | DISCHARGE TIME |       |       |      |     |     |     |     |     |     |     |
|-----------|----------------|-------|-------|------|-----|-----|-----|-----|-----|-----|-----|
|           | 5Min           | 15Min | 30Min | 1H   | 2H  | 3H  | 5H  | 6H  | 8H  | 10H | 24H |
| NXP 200   | 263            | 217   | 168   | 105  | 66  | 50  | 35  | 30  | 24  | 20  | 9   |
| NXP 250   | 343            | 283   | 205   | 137  | 87  | 65  | 45  | 40  | 32  | 26  | 12  |
| NXP 300   | 395            | 326   | 237   | 158  | 100 | 75  | 52  | 46  | 37  | 30  | 14  |
| NXP 400   | 527            | 435   | 316   | 211  | 133 | 100 | 70  | 61  | 49  | 41  | 18  |
| NXP 500   | 659            | 544   | 396   | 264  | 167 | 125 | 88  | 77  | 61  | 51  | 23  |
| NXP 600   | 791            | 653   | 475   | 317  | 200 | 150 | 105 | 92  | 74  | 61  | 28  |
| NXP 800   | 909            | 762   | 570   | 419  | 281 | 209 | 142 | 123 | 98  | 82  | 38  |
| NXP 1000  | 1137           | 952   | 712   | 524  | 351 | 261 | 178 | 154 | 122 | 103 | 47  |
| NXP 1200  | 1365           | 1143  | 855   | 629  | 421 | 313 | 213 | 185 | 147 | 123 | 56  |
| NXP 1500  | 1705           | 1428  | 1069  | 787  | 527 | 392 | 267 | 231 | 184 | 154 | 71  |
| NXP 2000  | 2274           | 1905  | 1425  | 1049 | 702 | 522 | 356 | 308 | 245 | 205 | 94  |

**1.83Volt / cell Discharge in Amps(at 25 °C)**

| CELL TYPE | DISCHARGE TIME |       |       |     |     |     |     |     |     |     |     |
|-----------|----------------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-----|
|           | 5Min           | 15Min | 30Min | 1H  | 2H  | 3H  | 5H  | 6H  | 8H  | 10H | 24H |
| NXP 200   | 245            | 204   | 150   | 99  | 63  | 48  | 34  | 30  | 24  | 20  | 9   |
| NXP 250   | 319            | 265   | 196   | 128 | 83  | 63  | 44  | 39  | 31  | 26  | 11  |
| NXP 300   | 368            | 306   | 226   | 148 | 95  | 73  | 51  | 45  | 36  | 30  | 13  |
| NXP 400   | 490            | 409   | 301   | 198 | 127 | 97  | 68  | 60  | 48  | 40  | 18  |
| NXP 500   | 613            | 511   | 377   | 247 | 160 | 121 | 85  | 75  | 60  | 50  | 22  |
| NXP 600   | 736            | 613   | 452   | 297 | 191 | 146 | 103 | 91  | 72  | 60  | 27  |
| NXP 800   | 842            | 701   | 532   | 396 | 269 | 202 | 140 | 122 | 97  | 82  | 37  |
| NXP 1000  | 1053           | 876   | 665   | 495 | 336 | 253 | 175 | 152 | 122 | 102 | 47  |
| NXP 1200  | 1264           | 1052  | 798   | 594 | 403 | 304 | 210 | 183 | 146 | 123 | 56  |
| NXP 1500  | 1579           | 1315  | 997   | 742 | 504 | 380 | 262 | 228 | 183 | 153 | 70  |
| NXP 2000  | 2106           | 1753  | 1330  | 990 | 673 | 506 | 350 | 304 | 244 | 204 | 93  |

**1.85Volt / cell Discharge in Amps(at 25 °C)**

| CELL TYPE | DISCHARGE TIME |       |       |     |     |     |     |     |     |     |     |
|-----------|----------------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-----|
|           | 5Min           | 15Min | 30Min | 1H  | 2H  | 3H  | 5H  | 6H  | 8H  | 10H | 12H |
| NXP 200   | 233            | 193   | 141   | 95  | 60  | 47  | 34  | 29  | 24  | 20  | 9   |
| NXP 250   | 303            | 251   | 183   | 124 | 78  | 62  | 44  | 38  | 31  | 26  | 11  |
| NXP 300   | 350            | 289   | 211   | 143 | 90  | 71  | 51  | 44  | 36  | 30  | 13  |
| NXP 400   | 467            | 386   | 282   | 190 | 120 | 95  | 68  | 59  | 48  | 40  | 18  |
| NXP 500   | 584            | 482   | 353   | 238 | 151 | 119 | 85  | 74  | 60  | 50  | 22  |
| NXP 600   | 700            | 579   | 423   | 286 | 181 | 143 | 102 | 89  | 72  | 60  | 27  |
| NXP 800   | 781            | 648   | 501   | 370 | 253 | 191 | 133 | 116 | 94  | 79  | 36  |
| NXP 1000  | 976            | 810   | 626   | 463 | 316 | 239 | 166 | 146 | 117 | 98  | 46  |
| NXP 1200  | 1172           | 972   | 752   | 556 | 380 | 287 | 200 | 175 | 141 | 118 | 55  |
| NXP 1500  | 1464           | 1215  | 940   | 695 | 475 | 359 | 250 | 219 | 176 | 148 | 69  |
| NXP 2000  | 1952           | 1620  | 1253  | 926 | 633 | 479 | 333 | 292 | 235 | 197 | 92  |

**1.90Volt / cell Discharge in Amps(at 25 °C)**

| CELL TYPE | DISCHARGE TIME |       |       |     |     |     |     |     |     |     |     |
|-----------|----------------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-----|
|           | 5Min           | 15Min | 30Min | 1H  | 2H  | 3H  | 5H  | 6H  | 8H  | 10H | 12H |
| NXP 200   | 200            | 163   | 121   | 84  | 56  | 44  | 32  | 28  | 23  | 19  | 8   |
| NXP 250   | 261            | 212   | 157   | 110 | 73  | 58  | 42  | 37  | 30  | 25  | 11  |
| NXP 300   | 301            | 245   | 181   | 127 | 84  | 67  | 49  | 43  | 34  | 29  | 13  |
| NXP 400   | 401            | 326   | 242   | 169 | 113 | 89  | 65  | 57  | 46  | 38  | 17  |
| NXP 500   | 502            | 408   | 302   | 211 | 141 | 111 | 81  | 72  | 57  | 48  | 22  |
| NXP 600   | 602            | 489   | 363   | 254 | 169 | 134 | 98  | 86  | 69  | 58  | 26  |
| NXP 800   | 639            | 511   | 416   | 306 | 211 | 171 | 120 | 106 | 85  | 72  | 34  |
| NXP 1000  | 799            | 639   | 520   | 383 | 264 | 214 | 151 | 132 | 106 | 90  | 43  |
| NXP 1200  | 959            | 767   | 624   | 459 | 317 | 257 | 181 | 159 | 128 | 108 | 51  |
| NXP 1500  | 1199           | 959   | 781   | 574 | 397 | 321 | 226 | 198 | 160 | 135 | 64  |
| NXP 2000  | 1599           | 1279  | 1041  | 766 | 529 | 428 | 302 | 265 | 213 | 180 | 86  |

1.60Volt / cell Discharge in watts(at 25°C)

| CELL TYPE | DISCHARGE TIME (MINUTES) |       |       |       |        |        |        |
|-----------|--------------------------|-------|-------|-------|--------|--------|--------|
|           | 5Min                     | 15Min | 30Min | 60Min | 120Min | 180Min | 300Min |
| NXP 200   | 566                      | 474   | 377   | 269   | 173    | 128    | 85     |
| NXP 250   | 736                      | 616   | 491   | 350   | 225    | 167    | 110    |
| NXP 300   | 849                      | 711   | 566   | 403   | 260    | 193    | 127    |
| NXP 400   | 1133                     | 949   | 755   | 538   | 347    | 257    | 170    |
| NXP 500   | 1416                     | 1186  | 944   | 673   | 434    | 321    | 212    |
| NXP 600   | 1699                     | 1423  | 1133  | 807   | 521    | 386    | 255    |
| NXP 800   | 1969                     | 1656  | 1369  | 998   | 635    | 471    | 320    |
| NXP 1000  | 2461                     | 2071  | 1711  | 1248  | 794    | 589    | 401    |
| NXP 1200  | 2984                     | 2510  | 2075  | 1513  | 962    | 714    | 486    |
| NXP 1500  | 3692                     | 3106  | 2567  | 1872  | 1191   | 883    | 601    |
| NXP 2000  | 4922                     | 4142  | 3423  | 2496  | 1588   | 1178   | 801    |

1.70Volt / cell Discharge in watts(at 25°C)

| CELL TYPE | DISCHARGE TIME (MINUTES) |       |       |       |        |        |        |
|-----------|--------------------------|-------|-------|-------|--------|--------|--------|
|           | 5Min                     | 15Min | 30Min | 60Min | 120Min | 180Min | 300Min |
| NXP 200   | 518                      | 439   | 348   | 236   | 154    | 116    | 80     |
| NXP 250   | 673                      | 571   | 453   | 308   | 201    | 151    | 104    |
| NXP 300   | 777                      | 658   | 522   | 355   | 232    | 174    | 120    |
| NXP 400   | 1036                     | 878   | 697   | 473   | 309    | 233    | 160    |
| NXP 500   | 1295                     | 1098  | 871   | 592   | 386    | 291    | 200    |
| NXP 600   | 1554                     | 1317  | 1045  | 710   | 464    | 349    | 240    |
| NXP 800   | 1837                     | 1562  | 1273  | 930   | 584    | 449    | 306    |
| NXP 1000  | 2296                     | 1953  | 1591  | 1163  | 730    | 562    | 383    |
| NXP 1200  | 2784                     | 2368  | 1929  | 1410  | 885    | 681    | 464    |
| NXP 1500  | 3445                     | 2929  | 2387  | 1744  | 1096   | 843    | 574    |
| NXP 2000  | 4593                     | 3906  | 3182  | 2326  | 1461   | 1124   | 766    |

1.65Volt / cell Discharge in watts(at 25°C)

| CELL TYPE | DISCHARGE TIME (MINUTES) |       |       |       |        |        |        |
|-----------|--------------------------|-------|-------|-------|--------|--------|--------|
|           | 5Min                     | 15Min | 30Min | 60Min | 120Min | 180Min | 300Min |
| NXP 200   | 538                      | 455   | 357   | 248   | 159    | 120    | 82     |
| NXP 250   | 700                      | 592   | 464   | 323   | 207    | 157    | 106    |
| NXP 300   | 808                      | 683   | 536   | 373   | 239    | 181    | 123    |
| NXP 400   | 1077                     | 910   | 714   | 497   | 318    | 241    | 164    |
| NXP 500   | 1347                     | 1138  | 893   | 622   | 398    | 302    | 205    |
| NXP 600   | 1616                     | 1366  | 1072  | 746   | 478    | 362    | 246    |
| NXP 800   | 1900                     | 1605  | 1316  | 967   | 608    | 459    | 312    |
| NXP 1000  | 2376                     | 2006  | 1645  | 1209  | 761    | 574    | 391    |
| NXP 1200  | 2880                     | 2432  | 1994  | 1466  | 922    | 696    | 474    |
| NXP 1500  | 3564                     | 3010  | 2468  | 1813  | 1141   | 861    | 586    |
| NXP 2000  | 4752                     | 4013  | 3290  | 2418  | 1522   | 1148   | 782    |

1.75Volt / cell Discharge in watts(at 25°C)

| CELL TYPE | DISCHARGE TIME (MINUTES) |       |       |       |        |        |        |
|-----------|--------------------------|-------|-------|-------|--------|--------|--------|
|           | 5Min                     | 15Min | 30Min | 60Min | 120Min | 180Min | 300Min |
| NXP 200   | 501                      | 422   | 336   | 227   | 149    | 112    | 78     |
| NXP 250   | 652                      | 549   | 437   | 296   | 194    | 145    | 101    |
| NXP 300   | 752                      | 634   | 504   | 341   | 223    | 168    | 117    |
| NXP 400   | 1003                     | 845   | 673   | 455   | 298    | 224    | 156    |
| NXP 500   | 1254                     | 1056  | 841   | 569   | 373    | 280    | 195    |
| NXP 600   | 1505                     | 1268  | 1009  | 683   | 447    | 336    | 234    |
| NXP 800   | 1762                     | 1495  | 1196  | 877   | 559    | 441    | 301    |
| NXP 1000  | 2202                     | 1869  | 1496  | 1096  | 698    | 551    | 376    |
| NXP 1200  | 2670                     | 2266  | 1814  | 1330  | 847    | 668    | 456    |
| NXP 1500  | 3304                     | 2803  | 2244  | 1645  | 1048   | 827    | 564    |
| NXP 2000  | 4405                     | 3738  | 2992  | 2193  | 1397   | 1102   | 752    |



1.80Volt / cell Discharge in watts(at 25°C)

| CELL TYPE | DISCHARGE TIME (MINUTES) |       |       |       |        |        |        |
|-----------|--------------------------|-------|-------|-------|--------|--------|--------|
|           | 5Min                     | 15Min | 30Min | 60Min | 120Min | 180Min | 300Min |
| NXP 200   | 488                      | 402   | 324   | 222   | 146    | 108    | 76     |
| NXP 250   | 634                      | 523   | 422   | 289   | 190    | 140    | 98     |
| NXP 300   | 732                      | 604   | 487   | 333   | 219    | 162    | 114    |
| NXP 400   | 976                      | 805   | 649   | 444   | 293    | 216    | 152    |
| NXP 500   | 1220                     | 1007  | 811   | 556   | 366    | 270    | 190    |
| NXP 600   | 1464                     | 1208  | 974   | 667   | 439    | 324    | 228    |
| NXP 800   | 1683                     | 1409  | 1118  | 807   | 538    | 427    | 293    |
| NXP 1000  | 2103                     | 1762  | 1398  | 1009  | 673    | 534    | 366    |
| NXP 1200  | 2550                     | 2136  | 1695  | 1224  | 816    | 648    | 444    |
| NXP 1500  | 3155                     | 2643  | 2097  | 1514  | 1009   | 801    | 549    |
| NXP 2000  | 4207                     | 3524  | 2796  | 2019  | 1346   | 1069   | 732    |

1.83Volt / cell Discharge in watts(at 25°C)

| CELL TYPE | DISCHARGE TIME (MINUTES) |       |       |       |        |        |        |
|-----------|--------------------------|-------|-------|-------|--------|--------|--------|
|           | 5Min                     | 15Min | 30Min | 60Min | 120Min | 180Min | 300Min |
| NXP 200   | 461                      | 384   | 306   | 214   | 140    | 105    | 74     |
| NXP 250   | 599                      | 499   | 398   | 278   | 182    | 137    | 96     |
| NXP 300   | 692                      | 576   | 459   | 321   | 210    | 158    | 111    |
| NXP 400   | 922                      | 768   | 612   | 429   | 281    | 211    | 148    |
| NXP 500   | 1153                     | 961   | 765   | 536   | 351    | 264    | 186    |
| NXP 600   | 1384                     | 1153  | 918   | 643   | 421    | 316    | 223    |
| NXP 800   | 1584                     | 1318  | 1045  | 755   | 518    | 418    | 285    |
| NXP 1000  | 1980                     | 1648  | 1306  | 944   | 648    | 522    | 356    |
| NXP 1200  | 2400                     | 1998  | 1584  | 1145  | 786    | 633    | 432    |
| NXP 1500  | 2970                     | 2472  | 1960  | 1416  | 972    | 784    | 534    |
| NXP 2000  | 3960                     | 3296  | 2613  | 1888  | 1296   | 1045   | 712    |



Telecom



UPS



Emergency lighting



Security



Utility



Photovoltaic



Medical



Valve regulated



Grid plate



Recyclable



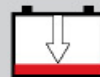
Single cell



Design life 15 years



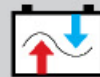
Capacity range:  
200-2000Ah.



Proof against deep  
discharge

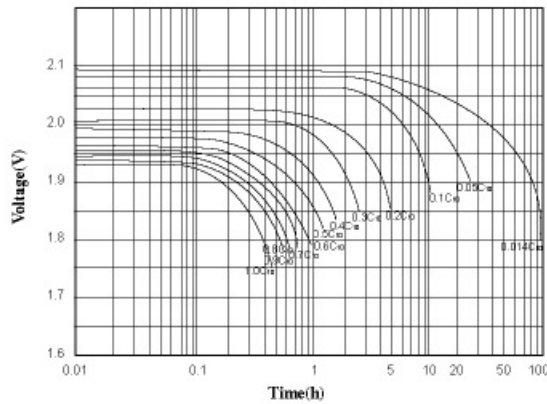


Maintenance free

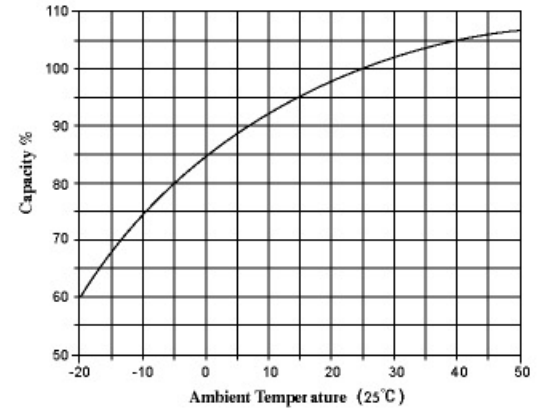


Cycles

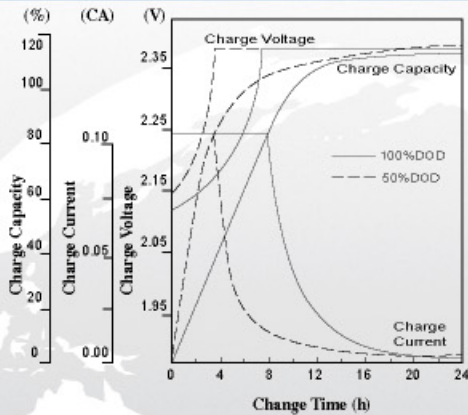
### 1. Discharge Performance Curves at Different Discharge Rate (25°C)



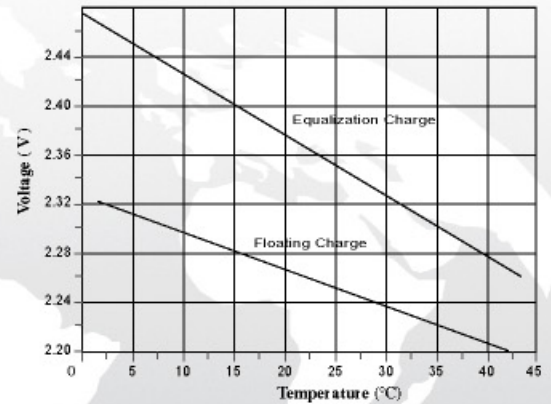
### 2. Available Capacity (10h rate) Vs. Ambient Temperature



### 3. Recharge characteristics of 100% DOD NXP-500 battery with current of 0.1C<sub>10</sub> and limit voltage of 2.35V/Cell (25°C)



### 4. The Voltage Setting Curve Vs. Ambient Temperature



### 5. Internal resistance and short circuit current

The table shows the internal resistance and short circuit current of XPower battery in fully charged state.  
Internal resistance and short circuit current (25°C)

| Type     | Internal Resistance (mΩ) | Short Circuit Current (A) |
|----------|--------------------------|---------------------------|
| NXP-200  | 0.67                     | 3080                      |
| NXP-250  | 0.57                     | 3400                      |
| NXP-300  | 0.47                     | 3960                      |
| NXP-400  | 0.35                     | 5080                      |
| NXP-500  | 0.33                     | 6000                      |
| NXP-600  | 0.28                     | 7175                      |
| NXP-800  | 0.21                     | 9060                      |
| NXP-1000 | 0.18                     | 10690                     |
| NXP-1200 | 0.17                     | 12060                     |
| NXP-1500 | 0.14                     | 14060                     |
| NXP-2000 | 0.11                     | 17210                     |

Note: Short circuit current will decrease the voltage of the battery to OV, and damage the internal components of the battery.

### 6. Relationship of ambient temperature and float voltage

Floating voltage is  $2.23 \pm 0.02V$ /cell, the designed use life of XPower battery is 15 years, Different temperature, please adjust according to Table

| Ambient Temperature(°C) | Float Voltage(V/Cell) |
|-------------------------|-----------------------|
| 0~10                    | 2.29                  |
| 11~15                   | 2.26                  |
| 16~25                   | 2.23                  |
| 26~30                   | 2.21                  |
| 31~35                   | 2.20                  |
| 36~40                   | 2.19                  |

Temperature Compensation:  $-0.003V/^\circ C$