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## Assured XP High Rate Batteries



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# Assured XP

## High Rate Batteries

XP Series batteries incorporate advanced VRLA & TTP technology designed for ultra high rate performance in critical UPS & power supply applications. By using strong grids and double sided pasted plate insures extremely durable & consistent performance under high rate discharges.



### Application

- UPS
- Hospitals and Testing Laboratories
- Emergency Power Supply
- Electric starting
- Telecommunications
- Data Centers

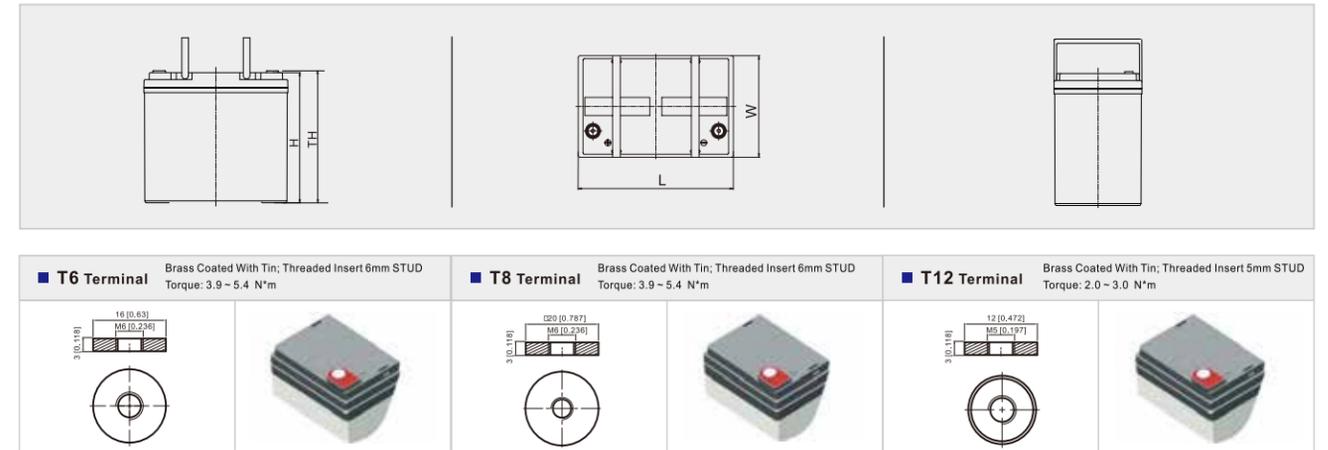


### Features and benefits

- 100 to 540 WPC for 15 min to 1.67 VPC
- Virgin lead plates with copper alloy terminals inserts (low Resistance)
- Standard solid flame retardant ABS case and covers to UL94V-0
- Strong gravity casting grids for long life
- Automated COS & TTP welding for low resistance
- 100% initial capacity, voltage & internal resistance matched.
- Designed for critical high rate UPS applications 12 years design life
- UL recognized
- IEC60896-21 & 22, third party tested & compliant
- IATA approved for AIR freight

### Dimensions & Terminal Options

Note: the figures below just show the appearance and dimension. For the positioning on each battery model, please check the specification



### Specifications

| Model    | Rated Voltage (V) | Rated Capacity                          |                                     | Approx Dimension(mm) |     |     |     | Approx Weight (kg) | Terminal     |
|----------|-------------------|-----------------------------------------|-------------------------------------|----------------------|-----|-----|-----|--------------------|--------------|
|          |                   | W <sub>15</sub> (W/cell)<br>@1.67V/cell | C <sub>20</sub> (Ah)@1.8<br>0V/cell | L                    | W   | H   | TH  |                    |              |
| XP12-100 | 12                | 100                                     | 27.6                                | 164                  | 125 | 174 | 174 | 8.4                | T12-1T12(M5) |
| XP12-150 | 12                | 150                                     | 35                                  | 195                  | 130 | 164 | 167 | 10.44              | T6-(M6)      |
| XP12-210 | 12                | 240.8                                   | 55                                  | 229                  | 138 | 200 | 203 | 17.7               | T6(M6)       |
| XP12-300 | 12                | 324.6                                   | 82                                  | 260                  | 168 | 208 | 211 | 24.2               | T6(M6)       |
| XP12-350 | 12                | 374                                     | 95                                  | 306                  | 168 | 208 | 211 | 28.2               | T6(M6)       |
| XP12-400 | 12                | 422                                     | 101.6                               | 325.5                | 170 | 213 | 216 | 31.6               | T8(M6)       |
| XP12-490 | 12                | 505.7                                   | 142                                 | 335                  | 172 | 275 | 278 | 42.6               | T8(M6)       |
| XP12-540 | 12                | 540.1                                   | 155                                 | 335                  | 172 | 275 | 278 | 42.4               | T8(M6)       |

### Discharge Performance

#### Constant Power Discharge

| Model    | 1.85V per cell -Constant Power (Watts/Cell) Discharge @ 25°C |       |       |       |       |       |       |       |      |      |      |      |      |      |      |
|----------|--------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|
|          | 5min                                                         | 10min | 15min | 20min | 30min | 45min | 1h    | 2h    | 3h   | 4h   | 5h   | 8h   | 7h   | 10h  | 20h  |
| XP12-100 | 163.9                                                        | 112.8 | 89    | 72.8  | 53.8  | 39.4  | 32.4  | 18.8  | 13.6 | 10.9 | 9.26 | 7.95 | 6.27 | 5.14 | 2.74 |
| XP12-150 | 250.7                                                        | 170.8 | 133.5 | 110.2 | 81.4  | 59.7  | 47.4  | 26.4  | 18.7 | 14.8 | 12.3 | 10.5 | 8.05 | 6.71 | 3.55 |
| XP12-210 | 286.3                                                        | 210.7 | 177.9 | 147   | 118.6 | 85.2  | 68.2  | 38.5  | 27.7 | 21.9 | 18.3 | 15.8 | 12.6 | 10.5 | 5.46 |
| XP12-300 | 374.2                                                        | 285.7 | 247.8 | 217.9 | 168.9 | 127   | 102.5 | 58.4  | 41.9 | 32.9 | 27.4 | 23.7 | 18.8 | 15.8 | 8.30 |
| XP12-350 | 441.2                                                        | 347.2 | 289.2 | 245.8 | 190.7 | 141   | 114.9 | 67.8  | 49.2 | 38.8 | 32.2 | 27.7 | 21.8 | 18.2 | 9.58 |
| XP12-400 | 476.2                                                        | 379.1 | 330.9 | 275.3 | 213.1 | 155.8 | 117   | 68.1  | 50.4 | 40.6 | 34.2 | 29.7 | 23.4 | 19.3 | 10.2 |
| XP12-490 | 497.8                                                        | 424.6 | 377.4 | 329   | 263.7 | 203.4 | 162.9 | 96.6  | 70.3 | 56.2 | 47.3 | 41.1 | 32.7 | 27.3 | 14.3 |
| XP12-540 | 537.7                                                        | 441.9 | 383.5 | 339.5 | 273   | 209.1 | 172.5 | 102.8 | 74.4 | 59.5 | 49.8 | 43.5 | 34.9 | 29.5 | 15.6 |

| 1.80V per cell -Constant Power (Watts/Cell) Discharge @ 25°C |       |       |       |       |       |       |       |       |      |      |      |      |      |      |      |
|--------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| Model                                                        | 5min  | 10min | 15min | 20min | 30min | 45min | 1h    | 2h    | 3h   | 4h   | 5h   | 8h   | 7h   | 10h  | 20h  |
| XP12-100                                                     | 174.6 | 118.7 | 92.8  | 75.3  | 55.2  | 40.4  | 33.1  | 19.1  | 13.8 | 11   | 9.38 | 8.06 | 6.36 | 5.21 | 2.77 |
| XP12-150                                                     | 267   | 179.8 | 139.2 | 114   | 83.6  | 61.1  | 48.4  | 26.8  | 19   | 15   | 12.5 | 10.7 | 8.22 | 6.85 | 3.59 |
| XP12-210                                                     | 336.9 | 237   | 199.4 | 160.4 | 126.3 | 89.6  | 71.3  | 39.9  | 28.6 | 22.5 | 18.8 | 16.2 | 12.9 | 10.8 | 5.65 |
| XP12-300                                                     | 425   | 311.8 | 269   | 232.7 | 176.4 | 130.6 | 105.2 | 59.9  | 42.9 | 33.7 | 28.1 | 24.3 | 19.3 | 16.1 | 8.42 |
| XP12-350                                                     | 488.8 | 383   | 311.7 | 263.2 | 200.3 | 146.9 | 119.5 | 69.9  | 50.4 | 39.8 | 33.1 | 28.3 | 22.3 | 18.6 | 9.76 |
| XP12-400                                                     | 559.9 | 427.7 | 363   | 297.7 | 226.2 | 163   | 122.4 | 70.4  | 52.2 | 41.9 | 35.3 | 30.5 | 23.9 | 19.7 | 10.4 |
| XP12-490                                                     | 583.6 | 474.1 | 415.6 | 355.1 | 280.9 | 215   | 171.7 | 100.2 | 72.9 | 57.7 | 48.3 | 41.8 | 33.3 | 27.7 | 14.6 |
| XP12-540                                                     | 615.4 | 484.6 | 418.6 | 373.2 | 295   | 223.2 | 181.3 | 106.8 | 77.1 | 61.2 | 51.1 | 44.4 | 35.6 | 30   | 15.9 |

| 1.60V per cell -Constant Power (Watts/Cell) Discharge @ 25°C |       |       |       |       |       |       |       |       |      |      |      |      |      |      |      |
|--------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| Model                                                        | 5min  | 10min | 15min | 20min | 30min | 45min | 1h    | 2h    | 3h   | 4h   | 5h   | 8h   | 7h   | 10h  | 20h  |
| XP12-100                                                     | 201.4 | 133.3 | 102.7 | 82.2  | 59.7  | 43.2  | 35.2  | 20.1  | 14.5 | 11.5 | 9.81 | 8.4  | 6.62 | 5.4  | 2.88 |
| XP12-150                                                     | 308.1 | 201.9 | 154.1 | 124.5 | 90.4  | 65.4  | 51.6  | 28.3  | 20   | 15.7 | 13   | 11.1 | 8.73 | 7.21 | 3.81 |
| XP12-210                                                     | 472.3 | 310.7 | 248.5 | 193.1 | 144.2 | 100.4 | 78.9  | 42.7  | 30.4 | 24   | 20   | 17.2 | 13.6 | 11.3 | 5.98 |
| XP12-300                                                     | 621.1 | 429   | 339.1 | 279   | 202.3 | 145.1 | 113.5 | 63.3  | 45.1 | 35.7 | 29.7 | 25.5 | 20.2 | 16.8 | 8.73 |
| XP12-350                                                     | 696.8 | 500   | 395   | 318.4 | 234.1 | 168.6 | 134.2 | 74.5  | 53.2 | 42   | 34.9 | 29.9 | 23.6 | 19.4 | 10.3 |
| XP12-400                                                     | 757.7 | 532.5 | 430.4 | 343.7 | 254.8 | 180.4 | 139.9 | 77.1  | 56.5 | 44.8 | 37.3 | 32.2 | 25   | 20.4 | 10.7 |
| XP12-490                                                     | 829.6 | 641.4 | 527.2 | 429.8 | 329.2 | 247   | 195.1 | 110.8 | 78.8 | 61.9 | 51.5 | 44.3 | 34.6 | 28.5 | 15.2 |
| XP12-540                                                     | 898.8 | 672.8 | 559.7 | 471.1 | 356.4 | 261.2 | 207.5 | 117.7 | 82.9 | 65.5 | 54.3 | 47.1 | 37.5 | 31.3 | 16.6 |

| 1.75V per cell -Constant Power (Watts/Cell) Discharge @ 25°C |       |       |       |       |       |       |       |       |      |      |      |      |      |      |      |
|--------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| Model                                                        | 5min  | 10min | 15min | 20min | 30min | 45min | 1h    | 2h    | 3h   | 4h   | 5h   | 8h   | 7h   | 10h  | 20h  |
| XP12-100                                                     | 181.9 | 122.6 | 95.3  | 77    | 56.4  | 41.1  | 33.6  | 19.4  | 14   | 11.1 | 9.49 | 8.14 | 6.42 | 5.25 | 2.80 |
| XP12-150                                                     | 278.3 | 185.7 | 143   | 116.5 | 85.3  | 62.2  | 49.2  | 27.2  | 19.3 | 15.2 | 12.6 | 10.8 | 8.33 | 6.94 | 3.66 |
| XP12-210                                                     | 385.5 | 259.9 | 213.5 | 170.1 | 131.3 | 92.7  | 73.4  | 41    | 29.2 | 22.9 | 19   | 16.4 | 13.1 | 10.9 | 5.75 |
| XP12-300                                                     | 478.5 | 346.7 | 290   | 244.5 | 182.2 | 133.6 | 107.2 | 61.3  | 43.7 | 34.3 | 28.6 | 24.7 | 19.6 | 16.3 | 8.53 |
| XP12-350                                                     | 540.1 | 416.3 | 334.1 | 278.8 | 208.8 | 152.2 | 123.4 | 71.1  | 51.3 | 40.3 | 33.5 | 28.9 | 22.7 | 18.8 | 9.93 |
| XP12-400                                                     | 623.5 | 466.1 | 387.8 | 313.9 | 237.8 | 169.2 | 128.6 | 72.5  | 53.4 | 42.9 | 35.9 | 31.1 | 24.4 | 20   | 10.6 |
| XP12-490                                                     | 661.2 | 532.2 | 451.5 | 377.7 | 293.7 | 224.2 | 179.2 | 103.3 | 75   | 59.3 | 49.5 | 42.9 | 33.9 | 28   | 14.8 |
| XP12-540                                                     | 710.1 | 534.9 | 459.8 | 400.9 | 314.2 | 235.1 | 190.2 | 110.7 | 79.2 | 62.5 | 52   | 45.2 | 36.1 | 30.4 | 16.2 |

| 1.70V per cell -Constant Power (Watts/Cell) Discharge @ 25°C |       |       |       |       |       |       |       |       |      |      |      |      |      |      |      |
|--------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| Model                                                        | 5min  | 10min | 15min | 20min | 30min | 45min | 1h    | 2h    | 3h   | 4h   | 5h   | 8h   | 7h   | 10h  | 20h  |
| XP12-100                                                     | 188.6 | 126.7 | 97.9  | 78.8  | 57.5  | 41.8  | 34.1  | 19.6  | 14.2 | 11.3 | 9.61 | 8.23 | 6.48 | 5.31 | 2.82 |
| XP12-150                                                     | 288.6 | 191.8 | 146.8 | 119.3 | 87.1  | 63.4  | 50    | 27.6  | 19.5 | 15.3 | 12.8 | 10.9 | 8.45 | 7.03 | 3.70 |
| XP12-210                                                     | 413   | 280   | 226.2 | 179   | 136.5 | 95.1  | 75.3  | 41.4  | 29.7 | 23.3 | 19.3 | 16.7 | 13.3 | 11   | 5.81 |
| XP12-300                                                     | 520.7 | 371.7 | 305.4 | 257.5 | 189.6 | 137.9 | 109.5 | 61.9  | 44.4 | 34.9 | 29.1 | 25   | 19.8 | 16.5 | 8.61 |
| XP12-350                                                     | 592   | 446.5 | 351.5 | 293.6 | 217   | 157.4 | 126.2 | 72.1  | 52   | 41.1 | 34.1 | 29.2 | 23   | 19.1 | 10.0 |
| XP12-400                                                     | 673.9 | 490.7 | 404   | 325.8 | 244.9 | 174.9 | 133   | 74.7  | 54.8 | 43.6 | 36.4 | 31.4 | 24.6 | 20.2 | 10.7 |
| XP12-490                                                     | 722.4 | 566.4 | 476.7 | 397.6 | 306.2 | 233   | 185.4 | 106.7 | 76.5 | 60.3 | 50.4 | 43.4 | 34.3 | 28.3 | 15.0 |
| XP12-540                                                     | 785.4 | 582.5 | 500.2 | 432.4 | 334.1 | 246.5 | 197.9 | 113.6 | 80.8 | 63.8 | 53   | 45.8 | 36.7 | 30.9 | 16.4 |

| 1.67V per cell -Constant Power (Watts/Cell) Discharge @ 25°C |       |       |       |       |       |       |       |       |      |      |      |      |      |      |      |
|--------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| Model                                                        | 5min  | 10min | 15min | 20min | 30min | 45min | 1h    | 2h    | 3h   | 4h   | 5h   | 8h   | 7h   | 10h  | 20h  |
| XP12-100                                                     | 193.6 | 129.5 | 100   | 80.2  | 58.4  | 42.4  | 34.6  | 19.8  | 14.3 | 11.4 | 9.68 | 8.3  | 6.53 | 5.34 | 2.84 |
| XP12-150                                                     | 296.1 | 196.1 | 150   | 121.5 | 88.4  | 64.2  | 50.7  | 27.8  | 19.7 | 15.5 | 12.9 | 11   | 8.62 | 7.12 | 3.75 |
| XP12-210                                                     | 443.8 | 293.8 | 240.8 | 187.2 | 140.6 | 98    | 77.1  | 42.3  | 30   | 23.6 | 19.6 | 16.9 | 13.4 | 11.2 | 5.89 |
| XP12-300                                                     | 571.4 | 401.7 | 324.6 | 267.6 | 196.7 | 141.4 | 112   | 62.7  | 44.9 | 35.3 | 29.4 | 25.2 | 20   | 16.7 | 8.72 |
| XP12-350                                                     | 649.4 | 474.3 | 374   | 307.6 | 226.1 | 162   | 129.1 | 73.1  | 52.7 | 41.6 | 34.4 | 29.6 | 23.3 | 19.3 | 10.2 |
| XP12-400                                                     | 731.1 | 516.5 | 422   | 328   | 248.8 | 176.3 | 135.4 | 76.5  | 55.9 | 44.5 | 37.2 | 32   | 25   | 20.4 | 10.7 |
| XP12-490                                                     | 777.5 | 602.9 | 505.7 | 416.4 | 320.5 | 242.5 | 191.8 | 109.9 | 78.2 | 61.7 | 51.1 | 44.1 | 34.6 | 28.6 | 15.2 |
| XP12-540                                                     | 852   | 635.1 | 540.1 | 456.6 | 346.4 | 255.5 | 203.8 | 116.8 | 82.8 | 65   | 53.9 | 46.6 | 37.2 | 31.2 | 16.5 |



■ Constant Current Discharge

| 1.85V/cell Constant Current Discharge(Amperes) |       |       |       |       |       |       |      |      |      |      |      |      |      |      |      |
|------------------------------------------------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| Model                                          | 5min  | 10min | 15min | 20min | 30min | 45min | 1h   | 2h   | 3h   | 4h   | 5h   | 8h   | 7h   | 10h  | 20h  |
| XP12-100                                       | 86.6  | 59.3  | 46.5  | 37.8  | 27.8  | 20.3  | 16.7 | 9.58 | 6.92 | 5.51 | 4.69 | 4.02 | 3.16 | 2.59 | 1.37 |
| XP12-150                                       | 132.5 | 89.8  | 69.7  | 57.2  | 42.1  | 30.8  | 24.4 | 13.5 | 9.53 | 7.5  | 6.23 | 5.31 | 3.93 | 3.26 | 1.72 |
| XP12-210                                       | 147.1 | 107.6 | 90.4  | 74.4  | 59.7  | 42.6  | 34.1 | 19.2 | 13.7 | 10.8 | 8.99 | 7.75 | 6.16 | 5.13 | 2.64 |
| XP12-300                                       | 192.4 | 146.1 | 126   | 110.2 | 85    | 63.6  | 51.2 | 29.1 | 20.7 | 16.2 | 13.5 | 11.6 | 9.19 | 7.7  | 4.02 |
| XP12-350                                       | 226.8 | 177.5 | 147   | 123.1 | 96    | 70.6  | 57.3 | 33.7 | 24.4 | 19.1 | 15.8 | 13.6 | 10.7 | 8.84 | 4.63 |
| XP12-400                                       | 244.7 | 193.8 | 168.2 | 139.3 | 107.2 | 78    | 58.4 | 33.8 | 25   | 20   | 16.8 | 14.6 | 11.4 | 9.37 | 4.94 |
| XP12-490                                       | 261.7 | 220.7 | 194.8 | 168.9 | 134.5 | 103.1 | 82.1 | 48.4 | 35.1 | 28   | 23.4 | 20.2 | 16   | 13.3 | 6.93 |
| XP12-540                                       | 282.7 | 229.7 | 197.9 | 173.4 | 139.3 | 106   | 87   | 51.5 | 37.2 | 29.6 | 24.6 | 21.4 | 17.1 | 14.3 | 7.57 |

| 1.80V/cell Constant Current Discharge(Amperes) |       |       |       |       |       |       |      |      |      |      |      |      |      |      |      |
|------------------------------------------------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| Model                                          | 5min  | 10min | 15min | 20min | 30min | 45min | 1h   | 2h   | 3h   | 4h   | 5h   | 8h   | 7h   | 10h  | 20h  |
| XP12-100                                       | 93.2  | 62.8  | 48.7  | 39.3  | 28.7  | 20.9  | 17.1 | 9.76 | 7.03 | 5.59 | 4.76 | 4.08 | 3.21 | 2.62 | 1.38 |
| XP12-150                                       | 142.5 | 95.1  | 73.2  | 59.5  | 43.4  | 31.6  | 25   | 13.7 | 9.69 | 7.61 | 6.32 | 5.39 | 4.03 | 3.35 | 1.75 |
| XP12-210                                       | 175.1 | 122.4 | 102.4 | 81.9  | 64.2  | 45.2  | 35.9 | 20   | 14.2 | 11.2 | 9.28 | 7.97 | 6.33 | 5.26 | 2.75 |
| XP12-300                                       | 220.7 | 161   | 138.1 | 118.8 | 89.5  | 65.9  | 52.9 | 30   | 21.4 | 16.7 | 13.9 | 12   | 9.46 | 7.86 | 4.10 |
| XP12-350                                       | 253.9 | 197.8 | 160.1 | 133.1 | 101.7 | 74.1  | 60.1 | 35   | 25.1 | 19.8 | 16.3 | 14   | 10.9 | 9.07 | 4.75 |
| XP12-400                                       | 290.9 | 220.9 | 186.4 | 152   | 114.8 | 82.3  | 61.5 | 35.2 | 26   | 20.8 | 17.5 | 15   | 11.7 | 9.6  | 5.08 |
| XP12-490                                       | 310.5 | 248.5 | 216.5 | 183.6 | 144.4 | 109.9 | 87.2 | 50.6 | 36.7 | 28.9 | 24.1 | 20.8 | 16.4 | 13.6 | 7.10 |
| XP12-540                                       | 327.4 | 254   | 218   | 192   | 151.7 | 114.1 | 92.1 | 54   | 38.8 | 30.7 | 25.5 | 22.1 | 17.6 | 14.7 | 7.75 |

| 1.75V/cell Constant Current Discharge(Amperes) |       |       |       |       |       |       |      |      |      |      |      |      |      |      |      |
|------------------------------------------------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| Model                                          | 5min  | 10min | 15min | 20min | 30min | 45min | 1h   | 2h   | 3h   | 4h   | 5h   | 8h   | 7h   | 10h  | 20h  |
| XP12-100                                       | 98.2  | 65.3  | 50.4  | 40.4  | 29.4  | 21.3  | 17.4 | 9.94 | 7.14 | 5.67 | 4.82 | 4.13 | 3.25 | 2.65 | 1.40 |
| XP12-150                                       | 150.2 | 99    | 75.6  | 61.2  | 44.5  | 32.3  | 25.5 | 14   | 9.85 | 7.71 | 6.4  | 5.45 | 4.11 | 3.41 | 1.79 |
| XP12-210                                       | 202.2 | 135.5 | 110.6 | 87.7  | 67.2  | 47.3  | 37.1 | 20.6 | 14.6 | 11.4 | 9.47 | 8.13 | 6.45 | 5.36 | 2.81 |
| XP12-300                                       | 251.1 | 180.8 | 150.2 | 126   | 93.3  | 68    | 54.3 | 30.9 | 21.9 | 17.1 | 14.2 | 12.3 | 9.66 | 8    | 4.17 |
| XP12-350                                       | 283.5 | 217   | 173.1 | 142.2 | 106.9 | 77.5  | 62.5 | 35.8 | 25.7 | 20.1 | 16.7 | 14.3 | 11.2 | 9.25 | 4.86 |
| XP12-400                                       | 327.2 | 243   | 200.9 | 161.7 | 121.8 | 86.1  | 65.1 | 36.5 | 26.8 | 21.4 | 17.9 | 15.4 | 12   | 9.81 | 5.20 |
| XP12-490                                       | 355   | 282.6 | 237.2 | 196.8 | 152.2 | 115.5 | 91.7 | 52.5 | 38   | 29.9 | 24.8 | 21.4 | 16.8 | 13.8 | 7.26 |
| XP12-540                                       | 381.3 | 284.1 | 241.7 | 207.9 | 162.8 | 121.1 | 97.3 | 56.3 | 40.1 | 31.5 | 26.1 | 22.6 | 17.9 | 15   | 7.93 |

| 1.70V/cell Constant Current Discharge(Amperes) |       |       |       |       |       |       |      |      |      |      |      |      |      |      |      |
|------------------------------------------------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| Model                                          | 5min  | 10min | 15min | 20min | 30min | 45min | 1h   | 2h   | 3h   | 4h   | 5h   | 8h   | 7h   | 10h  | 20h  |
| XP12-100                                       | 102.8 | 68    | 52    | 41.6  | 30.2  | 21.8  | 17.7 | 10.1 | 7.25 | 5.75 | 4.89 | 4.18 | 3.28 | 2.68 | 1.41 |
| XP12-150                                       | 157.3 | 102.9 | 78.1  | 62.9  | 45.7  | 33    | 26   | 14.2 | 9.99 | 7.82 | 6.49 | 5.52 | 4.2  | 3.48 | 1.82 |
| XP12-210                                       | 219.3 | 147.6 | 118.6 | 93.2  | 70.6  | 48.9  | 38.4 | 21   | 15   | 11.7 | 9.69 | 8.32 | 6.59 | 5.45 | 2.86 |
| XP12-300                                       | 276.4 | 196   | 160.1 | 134.1 | 98.1  | 70.9  | 55.9 | 31.4 | 22.4 | 17.6 | 14.6 | 12.5 | 9.82 | 8.14 | 4.24 |
| XP12-350                                       | 314.3 | 235.4 | 184.2 | 151.3 | 112.3 | 80.9  | 64.5 | 36.6 | 26.2 | 20.6 | 17.1 | 14.6 | 11.4 | 9.43 | 4.94 |
| XP12-400                                       | 357.7 | 258.7 | 211.8 | 169.6 | 126.7 | 89.8  | 67.8 | 37.9 | 27.6 | 21.9 | 18.2 | 15.7 | 12.2 | 10   | 5.26 |
| XP12-490                                       | 391.7 | 303.6 | 253.1 | 208.7 | 159.8 | 120.9 | 95.6 | 54.7 | 38.9 | 30.5 | 25.4 | 21.8 | 17.1 | 14   | 7.38 |
| XP12-540                                       | 425.9 | 312.2 | 265.5 | 225.9 | 174.3 | 127.9 | 102  | 58.2 | 41.2 | 32.3 | 26.7 | 23   | 18.3 | 15.3 | 8.06 |

| 1.67V/cell Constant Current Discharge(Amperes) |       |       |       |       |       |       |       |      |      |      |      |      |      |      |      |
|------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| Model                                          | 5min  | 10min | 15min | 20min | 30min | 45min | 1h    | 2h   | 3h   | 4h   | 5h   | 8h   | 7h   | 10h  | 20h  |
| XP12-100                                       | 106.4 | 69.9  | 53.3  | 42.4  | 30.7  | 22.2  | 18    | 10.2 | 7.32 | 5.8  | 4.93 | 4.21 | 3.31 | 2.69 | 1.42 |
| XP12-150                                       | 162.7 | 105.8 | 80    | 64.2  | 46.5  | 33.6  | 26.4  | 14.4 | 10.1 | 7.89 | 6.55 | 5.57 | 4.31 | 3.54 | 1.85 |
| XP12-210                                       | 237.5 | 156   | 127   | 98.1  | 73.1  | 50.6  | 39.5  | 21.6 | 15.2 | 11.9 | 9.88 | 8.49 | 6.71 | 5.56 | 2.91 |
| XP12-300                                       | 305.8 | 213.4 | 171.2 | 140.2 | 102.3 | 73    | 57.5  | 32   | 22.8 | 17.8 | 14.8 | 12.6 | 9.99 | 8.28 | 4.31 |
| XP12-350                                       | 347.6 | 251.9 | 197.3 | 159.6 | 117.7 | 83.6  | 66.3  | 37.3 | 26.7 | 21   | 17.3 | 14.9 | 11.6 | 9.59 | 5.03 |
| XP12-400                                       | 391.3 | 274.3 | 222.6 | 171.8 | 129.4 | 91.1  | 69.5  | 39   | 28.4 | 22.5 | 18.7 | 16.1 | 12.5 | 10.1 | 5.30 |
| XP12-490                                       | 426   | 326.6 | 270.7 | 220.4 | 168.3 | 126.5 | 99.4  | 56.6 | 40.1 | 31.4 | 25.9 | 22.2 | 17.4 | 14.2 | 7.51 |
| XP12-540                                       | 466.9 | 344   | 289.1 | 240.4 | 181.8 | 133.3 | 105.6 | 60.1 | 42.4 | 33.1 | 27.3 | 23.5 | 18.7 | 15.5 | 8.15 |

| 1.60V/cell Constant Current Discharge(Amperes) |       |       |       |       |       |       |       |      |      |      |      |      |      |      |      |
|------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| Model                                          | 5min  | 10min | 15min | 20min | 30min | 45min | 1h    | 2h   | 3h   | 4h   | 5h   | 8h   | 7h   | 10h  | 20h  |
| XP12-100                                       | 112.8 | 72.8  | 55.2  | 43.7  | 31.5  | 22.7  | 18.4  | 10.4 | 7.45 | 5.9  | 5.01 | 4.27 | 3.35 | 2.73 | 1.44 |
| XP12-150                                       | 172.6 | 110.3 | 82.8  | 66.1  | 47.7  | 34.4  | 26.9  | 14.6 | 10.3 | 8.03 | 6.65 | 5.65 | 4.4  | 3.62 | 1.90 |
| XP12-210                                       | 255.6 | 166.8 | 132.4 | 102.2 | 75.7  | 52.4  | 40.8  | 22   | 15.5 | 12.2 | 10.1 | 8.73 | 6.88 | 5.68 | 2.99 |
| XP12-300                                       | 336.2 | 230.3 | 180.7 | 147.6 | 106.3 | 75.7  | 58.8  | 32.6 | 23.1 | 18.2 | 15.1 | 12.9 | 10.2 | 8.43 | 4.36 |
| XP12-350                                       | 377.1 | 268.5 | 210.6 | 166.7 | 123   | 88    | 69.6  | 38.3 | 27.2 | 21.4 | 17.7 | 15.2 | 11.9 | 9.76 | 5.16 |
| XP12-400                                       | 410.1 | 285.9 | 229.4 | 181.8 | 133.8 | 94.1  | 72.4  | 39.7 | 28.9 | 22.8 | 18.9 | 16.3 | 12.6 | 10.3 | 5.33 |
| XP12-490                                       | 463.5 | 354.8 | 287.3 | 232.3 | 176.4 | 131.3 | 103   | 58.1 | 41.1 | 32.1 | 26.6 | 22.7 | 17.7 | 14.5 | 7.63 |
| XP12-540                                       | 502.7 | 372.2 | 305   | 253.4 | 191.1 | 138.9 | 109.5 | 61.7 | 43.2 | 34   | 28   | 24.2 | 19.1 | 15.9 | 8.36 |

## Product Description

| Construction   |                                                                                                                                      |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Positive Plate | Lead-calcium grids minimize corrosion & prolongs life                                                                                |
| Negative Plate | Balanced lead-calcium grids optimize recombination efficiency                                                                        |
| AGM Separator  | Mechanically strong, low electrical resistance, micro porous glass fiber which completely absorbs the electrolyte into its structure |
| Terminal Post  | Lead casting terminal or threaded copper insert alternative (some models), the copper one provides maximum conductivity.             |
| Venting Valve  | EPDM Rubber 0.44 ~2.18 PSI resealing pressure. Releasing at 1.45~5.08 PSI.                                                           |
| Container      | ABS - Flame Retardant Containers to UL94V-0 is standard.                                                                             |

| Operation temperature range |                                                               |
|-----------------------------|---------------------------------------------------------------|
| Nominal                     | 20°C~25°C (68°F~77°F)                                         |
| Discharge                   | -15°C~50°C (5°F~122°F)                                        |
| Charge                      | -20°C ~ 40°C(-4°F~104°F) With temperature compensated charger |
| Storage                     | -15°C ~ 40°C (5°F~104°F )                                     |

| Performance                                |                                                    |
|--------------------------------------------|----------------------------------------------------|
| Recommended Maximum Charging Current Limit | Less than 0.25C A                                  |
| Float Charging Voltage                     | 13.5V~13.8V at 25°C, Temp. Coefficient -20mV/°C    |
| Maximum AC Ripple (Charger)                | ±0.02V/cell                                        |
| Self-Discharge                             | Low self-discharge rate less than 3% / month @20°C |
| Equalize charge                            | 13.8-14.4V at @25°C                                |

Note: Design and/or specifications subject to change without notice. If questions arise, contact your local Leoch sales representative for clarification.

