



# XP Series-Ultra High Rate

## XP12-210(12V210W)

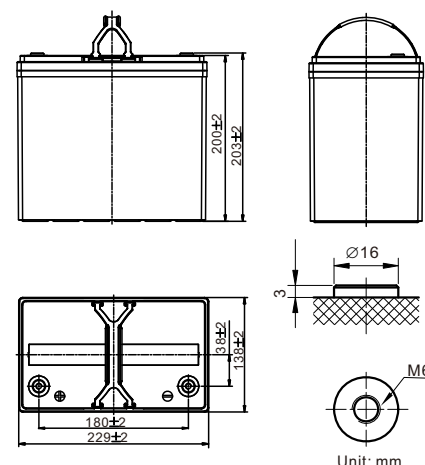


### Specifications

|                                                |                    |                           |
|------------------------------------------------|--------------------|---------------------------|
| Rated Voltage                                  | 12V                |                           |
| Nominal Rate (W <sub>15</sub> , 1.67V/cell)    | 240.8W/cell        |                           |
| Nominal Capacity(C <sub>20</sub> , 1.80V/cell) | 55Ah               |                           |
| Dimension                                      | Length             | 229±2mm (9.02 inches)     |
|                                                | Width              | 138±2mm (5.43 inches)     |
|                                                | Container Height   | 200±2mm (7.87 inches)     |
|                                                | Total Height       | 203±2mm (7.99 inches)     |
| Approx. Weight                                 | 17.7 Kg (39.0 lbs) |                           |
| Terminal                                       | M6                 |                           |
| Container Material                             | ABS                |                           |
| Rated Capacity (25°C)                          | 55.0 Ah            | (20hr, 2.75A, 1.80V/cell) |
|                                                | 52.6 Ah            | (10hr, 5.26A, 1.80V/cell) |
|                                                | 47.4 Ah            | (5hr, 9.47A, 1.75V/cell)  |
|                                                | 43.8 Ah            | (3hr, 14.6A, 1.75V/cell)  |
|                                                | 39.5 Ah            | (1hr, 39.5A, 1.67V/cell)  |
| Max. Discharge Current                         | 825A               |                           |
| Internal Resistance (25°C)                     | Approx. 5.0mΩ      |                           |
| Operating Temp. Range                          | Discharge          | -15 ~ 50°C (5 ~ 122°F)    |
|                                                | Charge             | 0 ~ 40°C (32 ~ 104°F)     |
|                                                | Storage            | -15 ~ 40°C (5 ~ 104°F)    |
| Nominal Operating Temp. Range                  | 25±3°C (77±5°F)    |                           |
| Max. Charging Current(25°C)                    | 16.5A              |                           |
| Charge voltage(25°C)                           | Float              | 13.5V                     |
|                                                | Temp. Coefficient  | -3mV/单格/°C                |
|                                                | Equalization       | 14.1~14.4V                |
| Effect of temp. to Capacity                    | 40°C (104°F)       | 103%                      |
|                                                | 25°C (77°F)        | 100%                      |
|                                                | 0°C (32°F)         | 86%                       |
| Self Discharge                                 | ≤3%/月 @ 25°C       |                           |



### Layout



### Constant Current Discharge (Amperes) at 25 °C (77°F)

| F.V/Time   | 5min  | 10min | 15min | 20min | 30min | 45min | 1h   | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  |
|------------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 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 |
| 1.80V/cell | 175.1 | 122.4 | 102.4 | 81.9  | 64.2  | 45.2  | 35.9 | 20.0 | 14.2 | 11.2 | 9.28 | 7.97 | 6.33 | 5.26 | 2.75 |
| 1.75V/cell | 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 |
| 1.70V/cell | 219.3 | 147.6 | 118.6 | 93.2  | 70.6  | 48.9  | 38.4 | 21.0 | 15.0 | 11.7 | 9.69 | 8.32 | 6.59 | 5.45 | 2.86 |
| 1.67V/cell | 237.5 | 156.0 | 127.0 | 98.1  | 73.1  | 50.6  | 39.5 | 21.6 | 15.2 | 11.9 | 9.88 | 8.49 | 6.71 | 5.56 | 2.91 |
| 1.60V/cell | 255.6 | 166.8 | 132.4 | 102.2 | 75.7  | 52.4  | 40.8 | 22.0 | 15.5 | 12.2 | 10.1 | 8.73 | 6.88 | 5.68 | 2.99 |

### Constant Power Discharge (Watts/cell) at 25 °C (77°F)

| F.V/Time   | 5min  | 10min | 15min | 20min | 30min | 45min | 1h   | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  |
|------------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 286.3 | 210.7 | 177.9 | 147.0 | 118.6 | 85.2  | 68.2 | 38.5 | 27.7 | 21.9 | 18.3 | 15.8 | 12.6 | 10.5 | 5.46 |
| 1.80V/cell | 336.9 | 237.0 | 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 |
| 1.75V/cell | 385.5 | 259.9 | 213.5 | 170.1 | 131.3 | 92.7  | 73.4 | 41.0 | 29.2 | 22.9 | 19.0 | 16.4 | 13.1 | 10.9 | 5.75 |
| 1.70V/cell | 413.0 | 280.0 | 226.2 | 179.0 | 136.5 | 95.1  | 75.3 | 41.4 | 29.7 | 23.3 | 19.3 | 16.7 | 13.3 | 11.0 | 5.81 |
| 1.67V/cell | 443.8 | 293.8 | 240.8 | 187.2 | 140.6 | 98.0  | 77.1 | 42.3 | 30.0 | 23.6 | 19.6 | 16.9 | 13.4 | 11.2 | 5.89 |
| 1.60V/cell | 472.3 | 310.7 | 248.5 | 193.1 | 144.2 | 100.4 | 78.9 | 42.7 | 30.4 | 24.0 | 20.0 | 17.2 | 13.6 | 11.3 | 5.98 |



# XP Series-Ultra High Rate

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### Applications

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

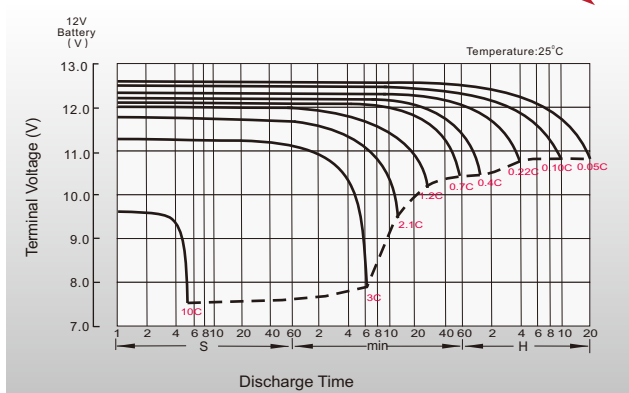
### General Features

- Special designed grids for optimized high power density
- Oversized partition intercell welds, providing low resistance connections & minimal power loss
- Advanced lead tin calcium alloy, reduces grid corrosion & promotes long battery life
- Performance excels at high rates of discharge & recharge
- High integrity post seal for long life

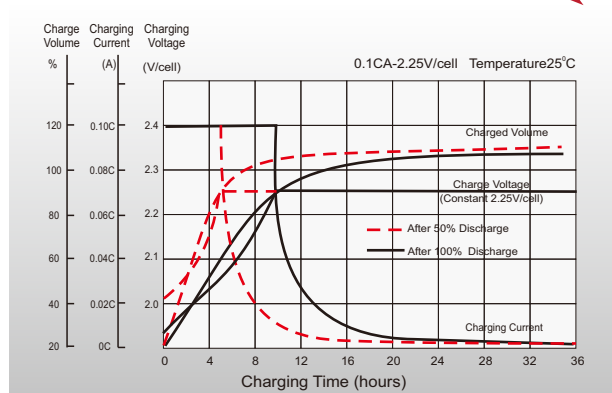
### Standards

- Compliance with IEC 60896 standards
- Classified as "Long Life" according to Eurobat
- CE, UL Certified
- Manufactured in Leoch® IATF 16949, OHSAS 18001, ISO 9001 and ISO 14001 certified production facilities

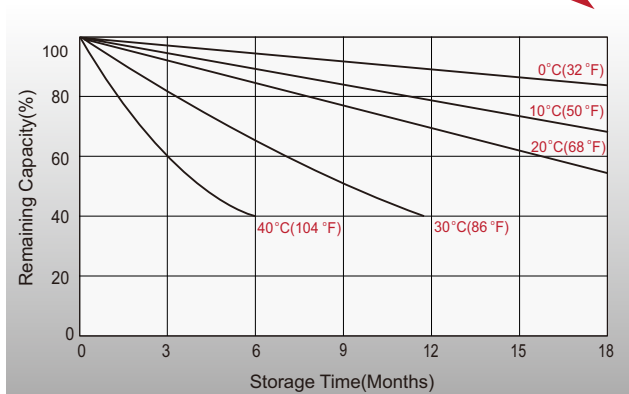
### Discharge Characteristics



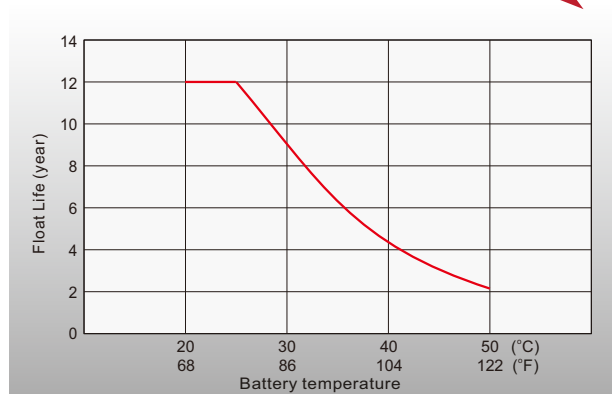
### Float Charging Characteristics



### Self Discharge Characteristics



### Temperature Effects on Long Term Float Life



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