



LP Series-General Purpose LP2-1200(2V1200Ah)

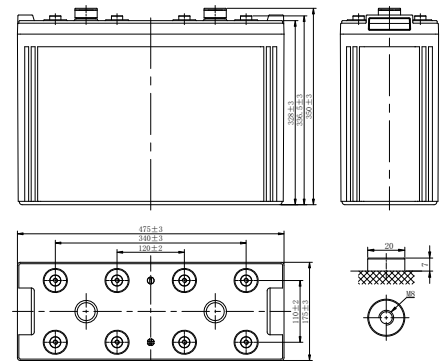


Specifications

| | | |
|-------------------------------|---|--------------------------------|
| Rated Voltage | 2V | |
| Nominal Capacity | 1200.0Ah | (C ₁₀ , 1.80V/cell) |
| Dimension | Length | 475±3mm (18.70 inches) |
| | Width | 175±3mm (6.89 inches) |
| | Container Height | 328±3mm (12.91 inches) |
| | Total Height | 350±3mm (13.78 inches) |
| Approx Weight | 63.8 Kg (140.7 lbs) | |
| Terminal | M8 | |
| Container Material | ABS | |
| Rated Capacity (25°C) | 1280.0 Ah | (20hr, 64.0A, 1.80V/cell) |
| | 1200.0 Ah | (10hr, 120.0A, 1.80V/cell) |
| | 1065.0 Ah | (5hr, 213.0A, 1.75V/cell) |
| | 926.4 Ah | (3hr, 308.8A, 1.75V/cell) |
| | 720.8Ah | (1hr, 720.8A, 1.60V/cell) |
| Max. Discharge Current | 9600A (5s) | |
| Internal Resistance (25°C) | Approx 0.33mΩ | |
| Operating Temp. Range | Discharge | -15 ~ 50°C (5 ~ 122°F) |
| | Charge | -20 ~ 40°C (-4 ~ 104°F) |
| | Storage | -15 ~ 40°C (5 ~ 104°F) |
| Nominal Operating Temp. Range | 25±3°C (77±5°F) | |
| Cycle Use | Initial Charging Current less than 360.0A. Voltage 2.4V~2.5V at 25°C(77°F)Temp. Coefficient -5mV/°C | |
| Standby Use | Initial Charging Current less than 360.0A. Voltage 2.25V~2.30V at 25°C(77°F)Temp. Coefficient -3mV/°C | |
| Effect of temp. to Capacity | 40°C (104°F) | 103% |
| | 25°C (77°F) | 100% |
| | 0°C (32°F) | 86% |
| Self Discharge | LP series batteries may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter. | |



Layout



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

| F.V/Time | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 1.85V/cell | 900.4 | 721.9 | 601.9 | 433.0 | 373.2 | 284.8 | 232.9 | 198.3 | 173.2 | 138.6 | 115.6 | 61.8 |
| 1.80V/cell | 966.1 | 759.5 | 629.4 | 473.7 | 390.0 | 298.8 | 243.3 | 206.6 | 180.9 | 144.6 | 120.0 | 64.0 |
| 1.75V/cell | 1023.1 | 798.6 | 656.7 | 489.6 | 405.6 | 308.8 | 251.5 | 213.0 | 185.2 | 147.5 | 121.6 | 64.3 |
| 1.70V/cell | 1073.5 | 828.7 | 679.8 | 506.2 | 421.8 | 318.4 | 257.0 | 216.6 | 188.5 | 150.0 | 123.0 | 65.0 |
| 1.67V/cell | 1126.1 | 864.8 | 704.2 | 515.3 | 435.6 | 325.6 | 262.5 | 221.3 | 191.8 | 152.3 | 124.4 | 65.7 |
| 1.60V/cell | 1164.7 | 888.0 | 720.8 | 538.3 | 444.0 | 331.2 | 266.2 | 224.5 | 194.4 | 154.5 | 126.2 | 66.2 |

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

| F.V/Time | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.85V/cell | 1720.8 | 1388.0 | 1164.3 | 844.2 | 725.9 | 556.6 | 456.7 | 390.6 | 342.2 | 275.0 | 229.8 | 123.1 |
| 1.80V/cell | 1831.5 | 1450.7 | 1210.7 | 918.3 | 755.0 | 581.2 | 475.5 | 405.2 | 356.1 | 286.1 | 238.3 | 127.3 |
| 1.75V/cell | 1924.8 | 1516.4 | 1257.7 | 943.4 | 782.0 | 599.1 | 490.0 | 416.3 | 363.4 | 291.1 | 241.1 | 127.7 |
| 1.70V/cell | 2002.6 | 1562.6 | 1294.9 | 969.5 | 809.9 | 615.4 | 498.7 | 422.2 | 369.3 | 295.8 | 243.8 | 129.1 |
| 1.67V/cell | 2085.0 | 1621.5 | 1333.8 | 983.3 | 832.8 | 626.5 | 507.6 | 429.8 | 374.5 | 299.5 | 246.3 | 130.2 |
| 1.60V/cell | 2134.8 | 1649.5 | 1355.8 | 1018.7 | 843.6 | 634.0 | 512.5 | 434.2 | 378.5 | 303.3 | 249.4 | 131.0 |



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Applications

- Tele-communication central station (wired or cellular)
- Power system communication, military communication, etc.
- Network communication including: data transmission, television signal transmission, etc.
- Uninterruptable Power System (UPS- for Telecom)

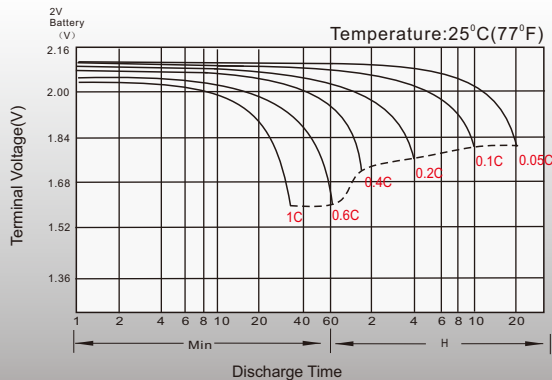
General Features

- 15 years design life(25°C)
- Special exhaust structure and sealing technology, safe and reliable, flexible installation, convenient maintenance
- PbCaSn alloy for plate grids: less gassing, less self-discharging
- High quality AGM separator: extend cycle life and prevent micro short circuit
- High purity raw material: ensure low self discharge rate

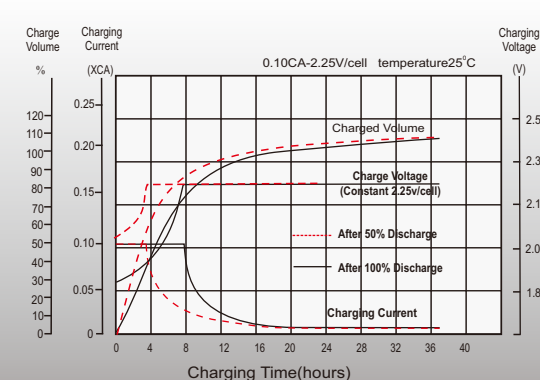
Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in Leoch®IATF 16949, ISO45001,ISO 9001 and ISO 14001 certified production facilities

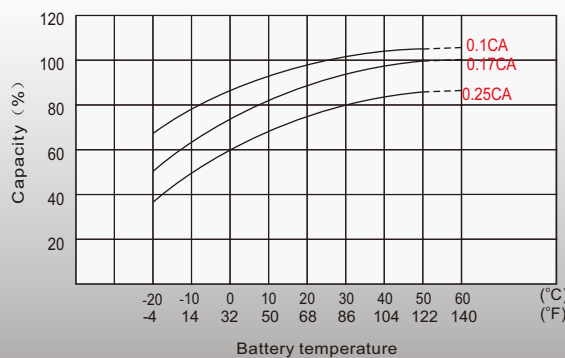
Discharge Characteristics



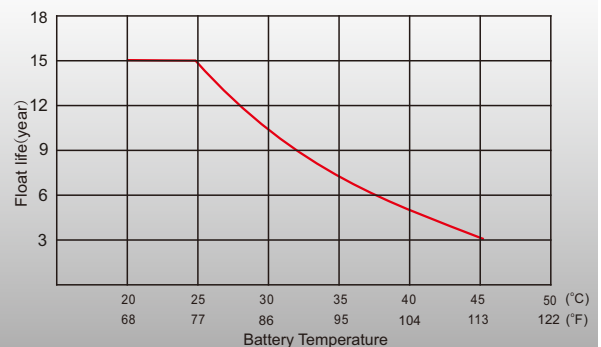
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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