



LP Series-General Purpose

LP2-120(2V120Ah)

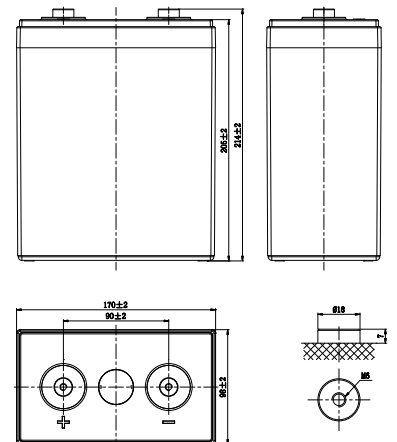


Specifications

| | | |
|-------------------------------|---|--------------------------------|
| Rated Voltage | 2V | |
| Nominal Capacity | 120.0Ah | (C ₁₀ , 1.80V/cell) |
| Dimension | Length | 170±2mm (6.69 inches) |
| | Width | 98±2mm (3.86 inches) |
| | Container Height | 205±2mm (8.07 inches) |
| | Total Height | 214±2mm (8.43 inches) |
| Approx Weight | 7.2 Kg (15.9 lbs) | |
| Terminal | M6 | |
| Container Material | ABS | |
| Rated Capacity (25°C) | 124.8 Ah | (20hr, 6.24A, 1.80V/cell) |
| | 120.0 Ah | (10hr, 12.0A, 1.80V/cell) |
| | 105.0 Ah | (5hr, 21.0A, 1.75V/cell) |
| | 92.1 Ah | (3hr, 30.7A, 1.75V/cell) |
| | 76.4 Ah | (1hr, 76.4A, 1.60V/cell) |
| Max. Discharge Current | 960A (5s) | |
| Internal Resistance (25°C) | Approx 1.0mΩ | |
| 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 36.0A. Voltage 2.4V~2.5V at 25°C(77°F)Temp. Coefficient -5mV/°C | |
| | Standby Use | |
| 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 | 15min | 20min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 138.5 | 108.9 | 97.5 | 73.6 | 62.1 | 41.9 | 35.4 | 28.4 | 22.9 | 19.6 | 17.7 | 13.8 | 11.1 | 5.83 |
| 1.80V/cell | 157.0 | 123.2 | 108.7 | 78.0 | 65.8 | 44.3 | 37.3 | 30.0 | 24.0 | 20.3 | 18.3 | 14.2 | 12.0 | 6.24 |
| 1.75V/cell | 169.9 | 133.0 | 113.4 | 80.8 | 69.8 | 46.9 | 39.0 | 30.7 | 24.9 | 21.0 | 18.8 | 14.4 | 12.1 | 6.33 |
| 1.70V/cell | 180.5 | 141.0 | 114.9 | 82.4 | 72.9 | 49.0 | 40.4 | 31.6 | 25.5 | 21.4 | 19.1 | 14.7 | 12.2 | 6.39 |
| 1.67V/cell | 185.8 | 144.8 | 116.6 | 83.6 | 75.5 | 50.7 | 41.7 | 32.6 | 26.1 | 21.7 | 19.5 | 14.9 | 12.3 | 6.45 |
| 1.60V/cell | 191.5 | 148.6 | 118.4 | 84.8 | 76.4 | 52.0 | 42.3 | 33.2 | 26.5 | 22.1 | 19.7 | 15.0 | 12.4 | 6.52 |

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

| F.V/Time | 15min | 20min | 30min | 45min | 1h | 1.5h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 262.3 | 207.2 | 178.8 | 141.5 | 99.7 | 76.0 | 62.6 | 47.7 | 39.3 | 36.0 | 31.9 | 23.6 | 19.8 | 10.4 |
| 1.80V/cell | 293.4 | 231.8 | 199.3 | 149.0 | 107.2 | 81.9 | 67.5 | 51.1 | 41.5 | 38.0 | 33.5 | 24.4 | 20.1 | 10.6 |
| 1.75V/cell | 313.1 | 247.4 | 208.0 | 153.4 | 112.8 | 85.5 | 70.1 | 52.7 | 42.9 | 39.3 | 34.4 | 24.8 | 20.4 | 10.7 |
| 1.70V/cell | 329.2 | 260.1 | 210.6 | 155.4 | 117.8 | 88.5 | 71.9 | 54.2 | 44.0 | 40.0 | 35.0 | 25.0 | 20.6 | 10.8 |
| 1.67V/cell | 334.6 | 264.3 | 213.8 | 156.8 | 123.0 | 91.6 | 74.0 | 55.8 | 45.1 | 40.5 | 35.4 | 25.2 | 20.8 | 10.9 |
| 1.60V/cell | 339.2 | 268.0 | 217.0 | 157.6 | 127.9 | 94.5 | 75.6 | 56.9 | 45.7 | 41.1 | 35.9 | 25.7 | 21.2 | 11.1 |



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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)

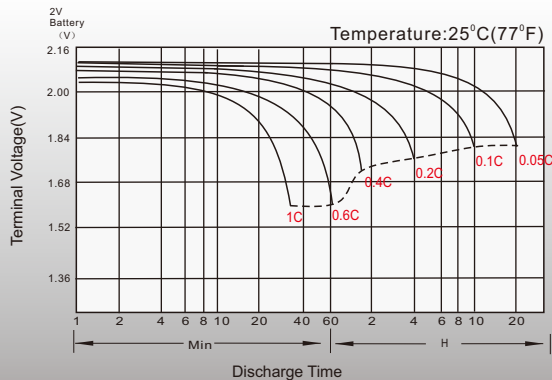
General Features

- 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

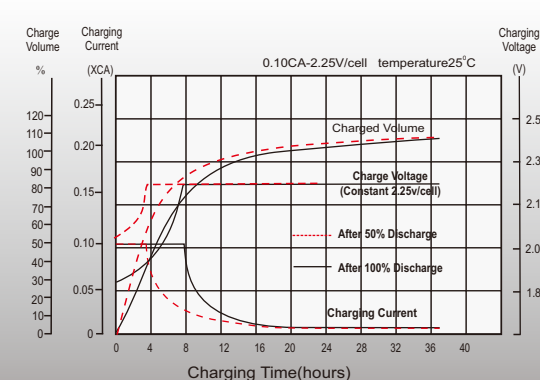
Standards

- 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

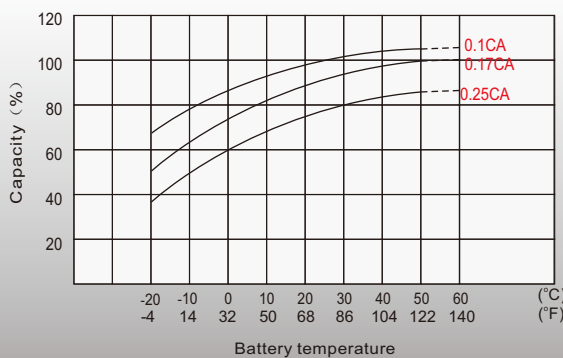
Discharge Characteristics



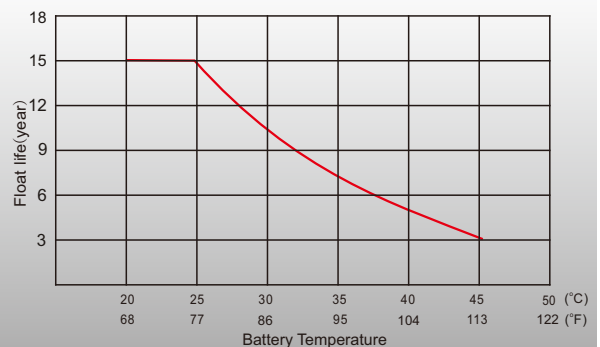
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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Publication No.: LB-LP2-120-PD-EN-V2.0-202004