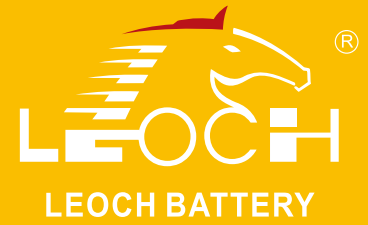


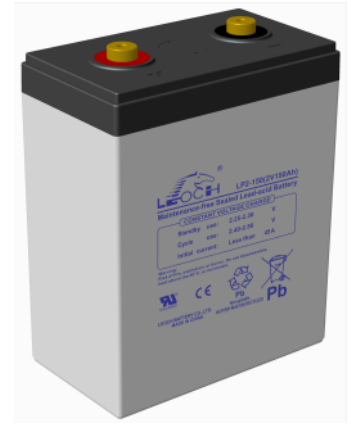


# LP Series-General Purpose LP2-150(2V150Ah)

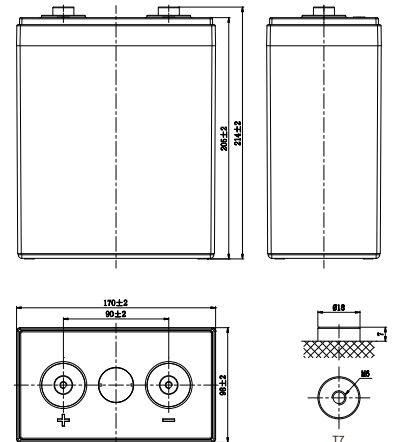


## Specifications

|                               |   |                                |
|-------------------------------|---|--------------------------------|
| Rated Voltage                 | 2V  |                                |
| Nominal Capacity              | 150.0Ah   | (C <sub>10</sub> , 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                 | 8.4 Kg (18.5 lbs)   |                                |
| Terminal                      | T7(M6)  |                                |
| Container Material            | ABS   |                                |
| Rated Capacity (25°C)         | 157.6 Ah  | (20hr, 7.88A, 1.80V/cell)      |
|                               | 150.0 Ah  | (10hr, 15.0A, 1.80V/cell)      |
|                               | 133.0 Ah  | (5hr, 26.6A, 1.75V/cell)       |
|                               | 115.2 Ah  | (3hr, 38.4A, 1.75V/cell)       |
|                               | 96.5 Ah   | (1hr, 96.5A, 1.60V/cell)       |
| Max. Discharge Current        | 1200A (5s)  |                                |
| Internal Resistance (25°C)    | Approx 0.9mΩ  |                                |
| 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)   |                                |
| Standby Use                   | Initial Charging Current less than 45.0A. Voltage 2.25V~2.30V at 25°C(77°F)Temp. Coefficient -3mV/°C  |                                |
|                               | Cycle 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 | 175.1 | 137.7 | 123.2 | 93.0  | 78.4 | 52.9 | 44.7 | 35.5 | 29.0 | 24.8 | 22.3 | 17.5 | 14.0 | 7.36 |
| 1.80V/cell | 198.4 | 155.7 | 137.3 | 98.5  | 83.0 | 55.9 | 47.1 | 37.5 | 30.3 | 25.7 | 23.1 | 17.9 | 15.0 | 7.88 |
| 1.75V/cell | 214.8 | 168.1 | 143.2 | 102.1 | 88.1 | 59.3 | 49.2 | 38.4 | 31.5 | 26.6 | 23.8 | 18.2 | 15.2 | 7.99 |
| 1.70V/cell | 228.1 | 178.2 | 145.0 | 104.1 | 92.1 | 61.9 | 51.0 | 39.6 | 32.2 | 27.0 | 24.2 | 18.5 | 15.4 | 8.07 |
| 1.67V/cell | 234.8 | 183.1 | 147.2 | 105.7 | 95.4 | 64.0 | 52.6 | 40.7 | 33.0 | 27.5 | 24.6 | 18.8 | 15.5 | 8.15 |
| 1.60V/cell | 242.1 | 187.8 | 149.5 | 107.2 | 96.5 | 65.7 | 53.5 | 41.5 | 33.4 | 27.9 | 24.9 | 19.0 | 15.7 | 8.23 |

## 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 | 331.5 | 261.9 | 225.8 | 178.8 | 125.9 | 96.0  | 79.0 | 60.3 | 49.6 | 45.4 | 40.2 | 29.9 | 25.0 | 13.1 |
| 1.80V/cell | 370.8 | 293.0 | 251.6 | 188.2 | 135.4 | 103.4 | 85.3 | 64.6 | 52.4 | 48.0 | 42.3 | 30.9 | 25.4 | 13.3 |
| 1.75V/cell | 395.8 | 312.7 | 262.6 | 193.8 | 142.4 | 108.0 | 88.6 | 66.6 | 54.1 | 49.6 | 43.5 | 31.3 | 25.7 | 13.5 |
| 1.70V/cell | 416.1 | 328.7 | 265.9 | 196.3 | 148.8 | 111.7 | 90.8 | 68.4 | 55.6 | 50.6 | 44.2 | 31.6 | 26.0 | 13.6 |
| 1.67V/cell | 422.8 | 334.0 | 270.0 | 198.1 | 155.3 | 115.7 | 93.4 | 70.4 | 57.0 | 51.1 | 44.7 | 31.9 | 26.3 | 13.8 |
| 1.60V/cell | 428.8 | 338.7 | 274.0 | 199.1 | 161.5 | 119.3 | 95.4 | 71.8 | 57.7 | 51.8 | 45.4 | 32.4 | 26.7 | 14.0 |



# LP Series-General Purpose LP2-150(2V150Ah)



## 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)

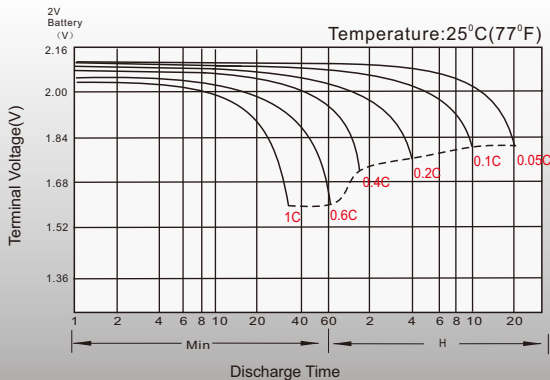
## General Features

- 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

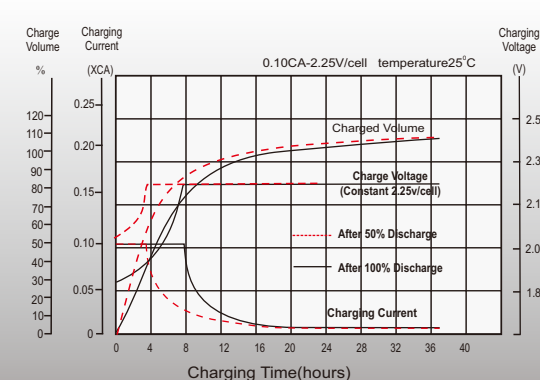
## Standards

- 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

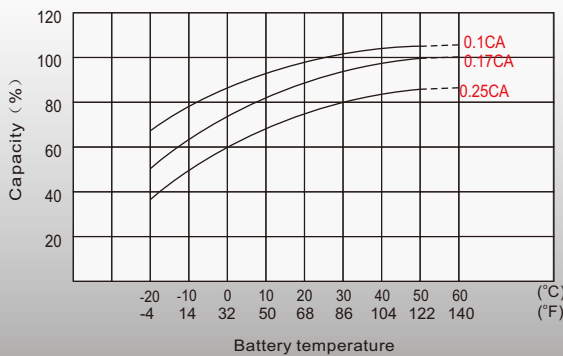
## Discharge Characteristics



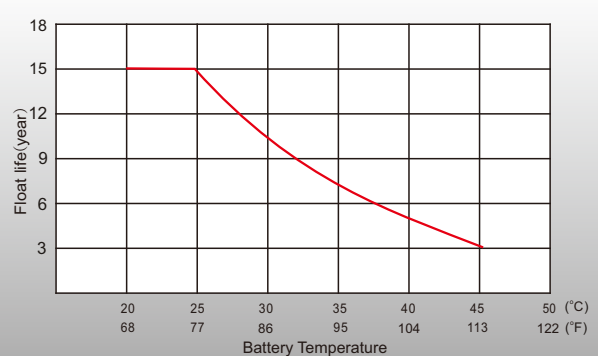
## Float Charging Characteristics



## Temperature Effects in Relation to Battery Capacity



## Effect of Temperature on Long Term Float Life



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