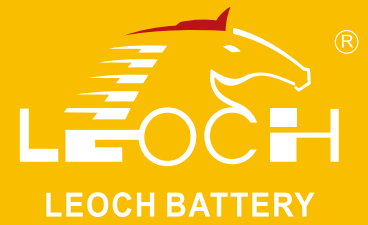




# LP Series-General Purpose LP2-250(2V250Ah)

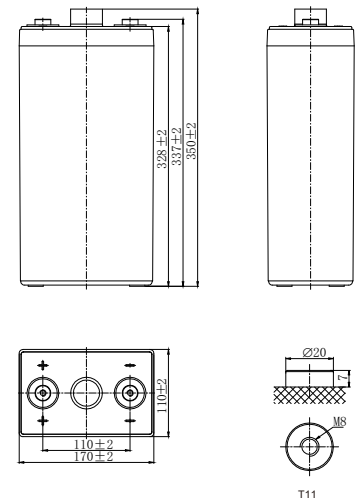


## Specifications

|                               |   |                                |
|-------------------------------|---|--------------------------------|
| Rated Voltage                 | 2V  |                                |
| Nominal Capacity              | 250.0Ah   | (C <sub>10</sub> , 1.80V/cell) |
| Dimension                     | Length  | 170±2mm (6.69 inches)          |
|                               | Width   | 110±2mm (4.33 inches)          |
|                               | Container Height  | 328±2mm (12.91 inches)         |
|                               | Total Height  | 350±2mm (13.78 inches)         |
| Approx Weight                 | 14.00 Kg (30.9 lbs)   |                                |
| Terminal                      | T11(M8)   |                                |
| Container Material            | ABS   |                                |
| Rated Capacity (25°C)         | 266.0 Ah  | (20hr, 13.3A, 1.80V/cell)      |
|                               | 250.0 Ah  | (10hr, 25.0A, 1.80V/cell)      |
|                               | 219.0 Ah  | (5hr, 43.8A, 1.75V/cell)       |
|                               | 195.0 Ah  | (3hr, 65.0A, 1.75V/cell)       |
|                               | 157.3 Ah  | (1hr, 157.3A, 1.60V/cell)      |
| Max. Discharge Current        | 2000A (5s)  |                                |
| Internal Resistance (25°C)    | Approx 0.8mΩ  |                                |
| 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 75.0A. Voltage 2.25V~2.30V at 25°C(77°F)Temp. Coefficient -3mV/°C  |                                |
| Cycle Use                     | Initial Charging Current less than 75.0A. Voltage 2.40V~2.50V at 25°C(77°F)Temp. Coefficient -5mV/°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)

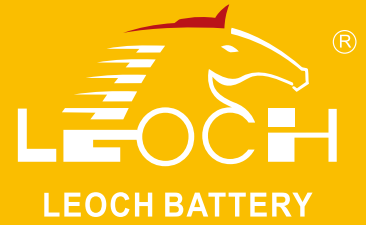
| F.V/Time   | 15min | 20min | 30min | 45min | 1h    | 1.5h  | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  |
|------------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 250.5 | 218.2 | 178.5 | 141.1 | 123.5 | 94.9  | 76.9 | 58.5 | 47.1 | 39.7 | 34.5 | 28.0 | 23.4 | 12.6 |
| 1.80V/cell | 291.3 | 251.4 | 201.8 | 157.8 | 136.7 | 103.9 | 83.7 | 63.3 | 50.7 | 42.8 | 37.0 | 30.0 | 25.0 | 13.3 |
| 1.75V/cell | 308.1 | 263.8 | 210.9 | 164.2 | 141.7 | 107.4 | 86.2 | 65.0 | 52.0 | 43.8 | 37.8 | 30.5 | 25.4 | 13.4 |
| 1.70V/cell | 325.6 | 277.6 | 225.2 | 170.4 | 146.9 | 111.0 | 89.0 | 66.9 | 53.3 | 44.7 | 38.6 | 31.1 | 25.8 | 13.6 |
| 1.67V/cell | 335.9 | 285.5 | 240.7 | 174.3 | 150.0 | 113.0 | 90.5 | 67.9 | 54.0 | 45.3 | 39.0 | 31.4 | 26.0 | 13.7 |
| 1.60V/cell | 360.0 | 304.0 | 243.5 | 183.3 | 157.3 | 118.0 | 94.3 | 70.4 | 55.8 | 46.7 | 40.1 | 32.2 | 26.6 | 13.9 |

## 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 | 481.2 | 420.4 | 344.9 | 273.6 | 240.0 | 185.1 | 150.3 | 114.7 | 92.5  | 78.2 | 68.0 | 55.4 | 46.4 | 25.0 |
| 1.80V/cell | 553.7 | 479.8 | 386.7 | 303.7 | 263.9 | 201.4 | 162.7 | 123.6 | 99.4  | 84.0 | 72.7 | 59.2 | 49.4 | 26.3 |
| 1.75V/cell | 579.6 | 498.6 | 400.7 | 313.6 | 271.7 | 206.9 | 166.8 | 126.4 | 101.5 | 85.6 | 74.0 | 60.1 | 50.1 | 26.6 |
| 1.70V/cell | 605.7 | 519.4 | 424.0 | 323.0 | 279.7 | 212.6 | 171.2 | 129.5 | 103.6 | 87.3 | 75.5 | 61.1 | 50.8 | 27.0 |
| 1.67V/cell | 620.7 | 530.8 | 449.0 | 328.6 | 284.2 | 215.6 | 173.5 | 131.1 | 104.8 | 88.2 | 76.2 | 61.6 | 51.2 | 27.1 |
| 1.60V/cell | 653.5 | 556.3 | 450.2 | 341.9 | 295.2 | 223.4 | 179.4 | 135.1 | 107.8 | 90.5 | 78.0 | 62.9 | 52.1 | 27.6 |



# LP Series-General Purpose LP2-250(2V250Ah)



## 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)

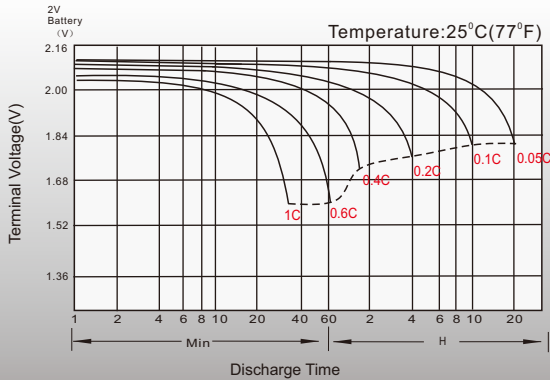
## General Features

- 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

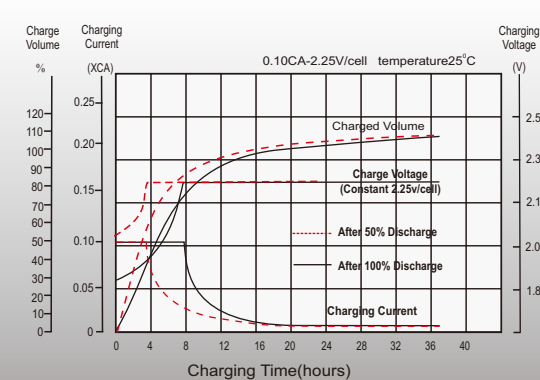
## Standards

- 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

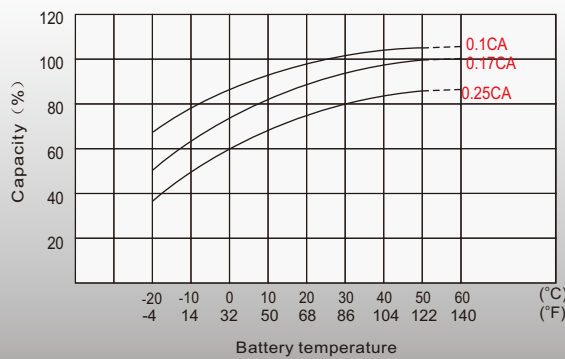
## Discharge Characteristics



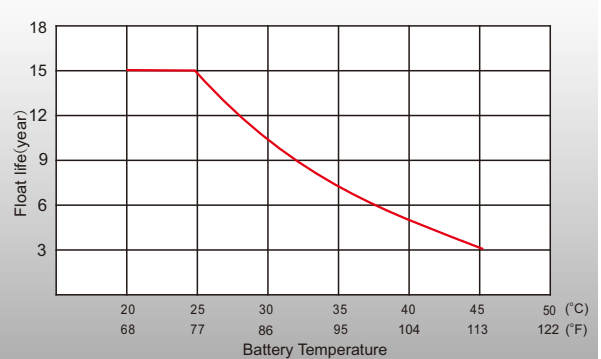
## Float Charging Characteristics



## Temperature Effects in Relation to Battery Capacity



## Effect of Temperature on Long Term Float Life



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