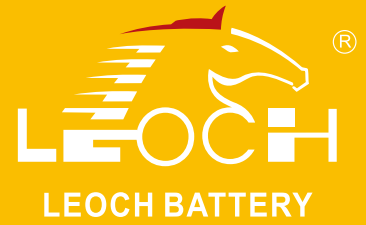




# LP Series-General Purpose LP2-350(2V350Ah)

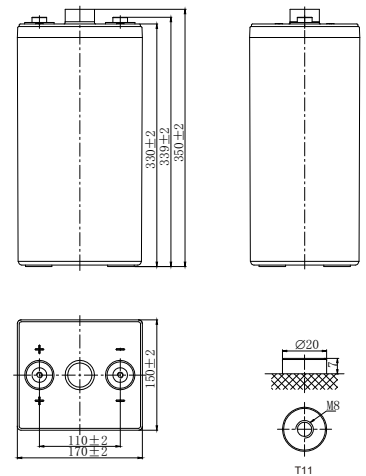


## Specifications

|                               |   |                                |
|-------------------------------|---|--------------------------------|
| Rated Voltage                 | 2V  |                                |
| Nominal Capacity              | 350.0Ah   | (C <sub>10</sub> , 1.80V/cell) |
| Dimension                     | Length  | 170±2mm (6.69 inches)          |
|                               | Width   | 150±2mm (5.91 inches)          |
|                               | Container Height  | 330±2mm (12.99 inches)         |
|                               | Total Height  | 350±2mm (13.78 inches)         |
| Approx Weight                 | 19.3 Kg (42.6 lbs)  |                                |
| Terminal                      | T11(M8)   |                                |
| Container Material            | ABS   |                                |
| Rated Capacity (25°C)         | 372.0 Ah  | (20hr, 18.6A, 1.80V/cell)      |
|                               | 350.0 Ah  | (10hr, 35.0A, 1.80V/cell)      |
|                               | 306.5 Ah  | (5hr, 61.3A, 1.75V/cell)       |
|                               | 273.0 Ah  | (3hr, 91.0A, 1.75V/cell)       |
|                               | 220.2 Ah  | (1hr, 220.2A, 1.60V/cell)      |
| Max. Discharge Current        | 2800A (5s)  |                                |
| Internal Resistance (25°C)    | Approx 0.75mΩ   |                                |
| 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 105.0A. Voltage 2.25V~2.30V at 25°C(77°F)Temp. Coefficient -3mV/°C   |                                |
|                               | Cycle Use   |                                |
| Effect of temp. to Capacity   | Initial Charging Current less than 105.0A. Voltage 2.40V~2.50V at 25°C(77°F)Temp. Coefficient -5mV/°C   |                                |
|                               | 40°C (104°F)  | 103%                           |
|                               | 25°C (77°F)   | 100%                           |
| Self Discharge                | 0°C (32°F)  | 86%                            |
|                               | 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 | 350.6 | 305.5 | 249.9 | 197.5 | 172.9 | 132.9 | 107.7 | 81.9 | 65.9 | 55.6 | 48.3 | 39.2 | 32.8 | 17.6 |
| 1.80V/cell | 407.8 | 352.0 | 282.5 | 220.9 | 191.3 | 145.4 | 117.2 | 88.6 | 71.0 | 59.9 | 51.8 | 42.0 | 35.0 | 18.6 |
| 1.75V/cell | 431.3 | 369.4 | 295.2 | 229.9 | 198.4 | 150.3 | 120.7 | 91.0 | 72.8 | 61.3 | 52.9 | 42.8 | 35.5 | 18.8 |
| 1.70V/cell | 455.9 | 388.7 | 315.3 | 238.6 | 205.7 | 155.4 | 124.6 | 93.7 | 74.6 | 62.6 | 54.0 | 43.5 | 36.1 | 19.0 |
| 1.67V/cell | 470.2 | 399.7 | 337.0 | 244.0 | 210.0 | 158.2 | 126.7 | 95.1 | 75.7 | 63.4 | 54.6 | 44.0 | 36.4 | 19.2 |
| 1.60V/cell | 504.0 | 425.6 | 340.9 | 256.6 | 220.2 | 165.3 | 132.0 | 98.6 | 78.2 | 65.4 | 56.2 | 45.0 | 37.2 | 19.5 |

## 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 | 673.6 | 588.6 | 482.9 | 383.0 | 336.1 | 259.2 | 210.5 | 160.6 | 129.5 | 109.5 | 95.2  | 77.5 | 64.9 | 35.0 |
| 1.80V/cell | 775.2 | 671.7 | 541.4 | 425.2 | 369.4 | 281.9 | 227.8 | 173.1 | 139.1 | 117.5 | 101.8 | 82.8 | 69.2 | 36.9 |
| 1.75V/cell | 811.5 | 698.0 | 561.0 | 439.0 | 380.4 | 289.6 | 233.5 | 176.9 | 142.0 | 119.8 | 103.7 | 84.2 | 70.1 | 37.3 |
| 1.70V/cell | 848.0 | 727.2 | 593.6 | 452.1 | 391.6 | 297.7 | 239.7 | 181.3 | 145.1 | 122.2 | 105.6 | 85.5 | 71.1 | 37.7 |
| 1.67V/cell | 868.9 | 743.1 | 628.6 | 460.0 | 397.9 | 301.9 | 242.9 | 183.5 | 146.8 | 123.5 | 106.7 | 86.2 | 71.6 | 38.0 |
| 1.60V/cell | 915.0 | 778.8 | 630.3 | 478.6 | 413.3 | 312.8 | 251.1 | 189.1 | 150.9 | 126.7 | 109.2 | 88.0 | 73.0 | 38.6 |



# LP Series-General Purpose LP2-350(2V350Ah)



## 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)

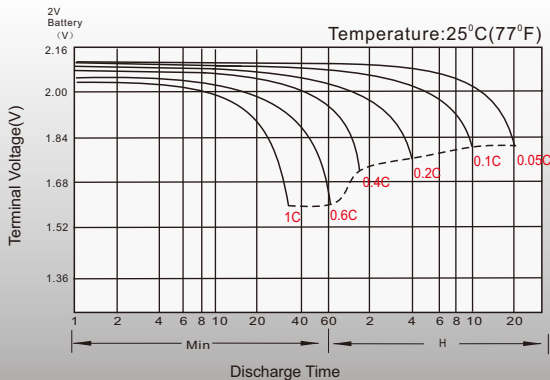
## General Features

- 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

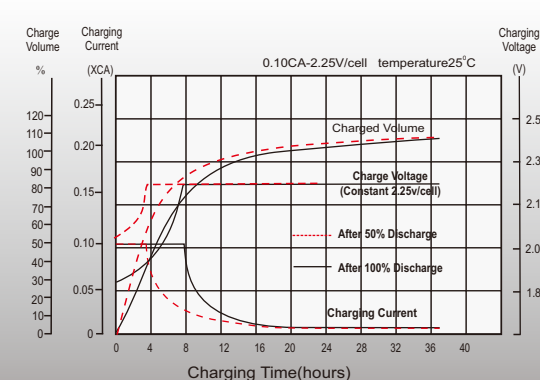
## Standards

- 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

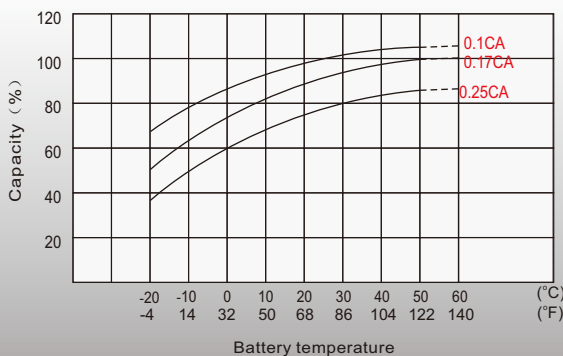
### Discharge Characteristics



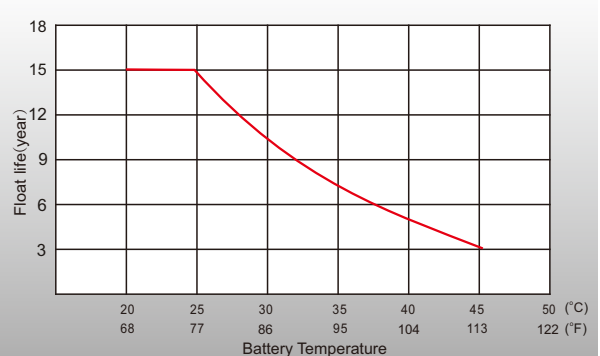
### Float Charging Characteristics



### Temperature Effects in Relation to Battery Capacity



### Effect of Temperature on Long Term Float Life



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