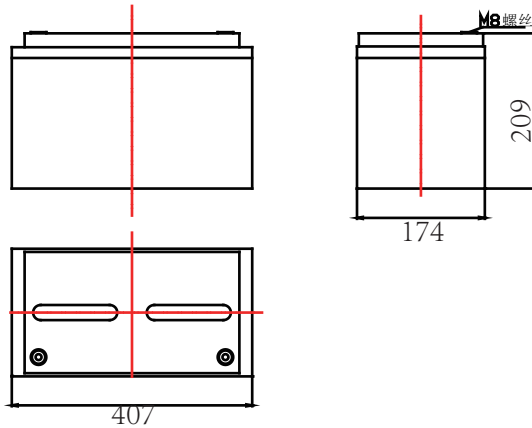


# LCPC 100-12 GEL BATTERY



## Features

“CNBM” battery ,Maintenance free and easy to use, Contemporary advanced technology research and development of new high-performance batteries,It can be widely used in solar energy , wind energy , telecommunication systems , off-grid systems , UPS and other fields.The designed life for the battery could be eight years up for float use.

## Technology data

| Reted Voltage   | Capacity (10hr,1.80V/Cell)                               | Weight   | Max Discharge Current | Max Charge Current  | Self-Discharge (25℃)                    | Recommended Using Temperature | Cover Material |
|---|--|--|-----------------------|---|---|-------------------------------|----------------|
| 12V   | 100Ah  | 31.5Kg   | 30I10A (3min)         | ≤0.25C10  | ≤3%/month                               | 15℃~25℃                       | ABS            |
| Using Temperature   | Charge Voltage (25℃)                                     | Charge Mode(25℃)   |                       | Cycle life  | Capacity Affected by Temperature        |                               |                |
| Discharge:-45℃~50℃<br>Charge:-20℃~45℃<br>Storage:-30℃~40℃ | Float Charge: 13.5V-13.8V<br>Average Charge: 14.1V-14.4V | Float Charge:2.275±0.025V/Cell<br>Temperature Compensation Coefficient :±3 mV/Cell ℃<br>Cycle Charge:2.45±0.05V/Cell<br>Temperature Compensation Coefficient: ±5 mV/Cell ℃ |                       | 100%DOD 572times<br>50%DOD 1422 times<br>30%DOD 2218times | 105 % @ 40℃<br>85 % @ 0℃<br>60 % @ -20℃ |                               |                |

## Certificate

ISO9001  
ISO14001  
CE  
CGC  
TLC

High and New Technology Products Certification

Standards:

GB/T 19638.2-2005  
YD/T799-2002  
JISC8704-2:1999

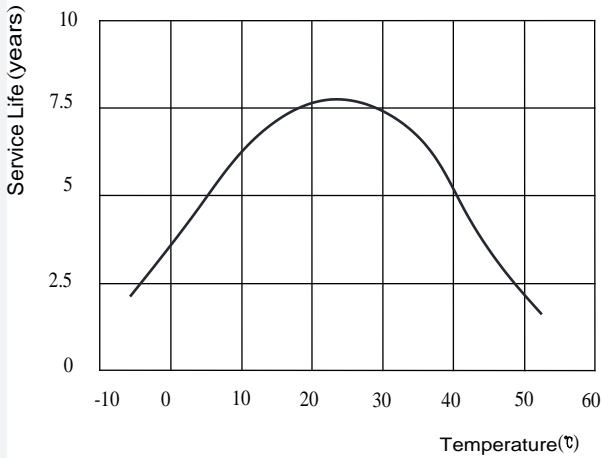
## Different discharge time at different terminal Voltage,discharge time(Amps,25)

| Constant current discharge coefficient (25℃, A) |       |       |       |       |      |      |      |      |      |
|---|-------|-------|-------|-------|------|------|------|------|------|
| Terminal Voltage (v/Cell)                       | 1H    | 3H    | 5H    | 10H   | 20H  | 50H  | 100H | 120H | 240H |
| 1.7   | 53.10 | 24.14 | 16.13 | 10.41 | 5.38 | 2.26 | 1.23 | 1.09 | 0.57 |
| 1.75  | 52.04 | 23.89 | 15.85 | 10.26 | 5.25 | 2.17 | 1.15 | 1.01 | 0.53 |
| 1.8   | 51.00 | 23.67 | 15.60 | 10.00 | 5.13 | 2.10 | 1.10 | 0.95 | 0.51 |
| 1.85  | 48.96 | 23.53 | 15.30 | 9.59  | 4.88 | 2.01 | 1.03 | 0.89 | 0.46 |
| 1.9   | 47.01 | 23.33 | 15.07 | 9.39  | 4.79 | 1.95 | 0.99 | 0.85 | 0.43 |
| 1.95  | 44.94 | 22.86 | 14.76 | 8.87  | 4.46 | 1.81 | 0.94 | 0.81 | 0.41 |

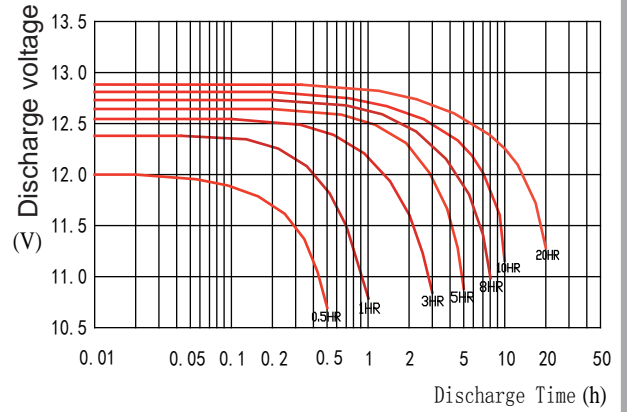


## Performance characteristics

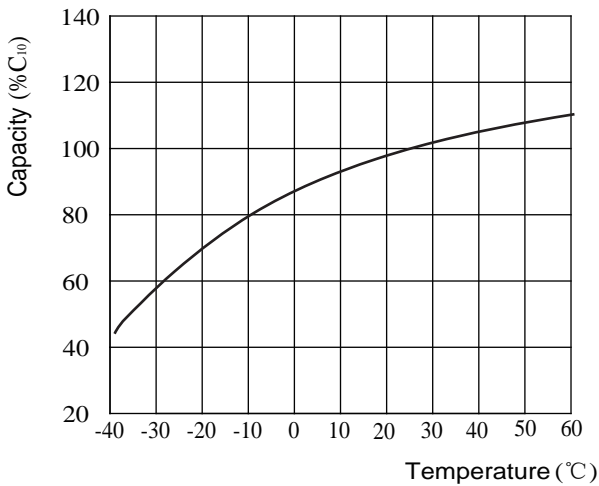
### Temperature and Service life



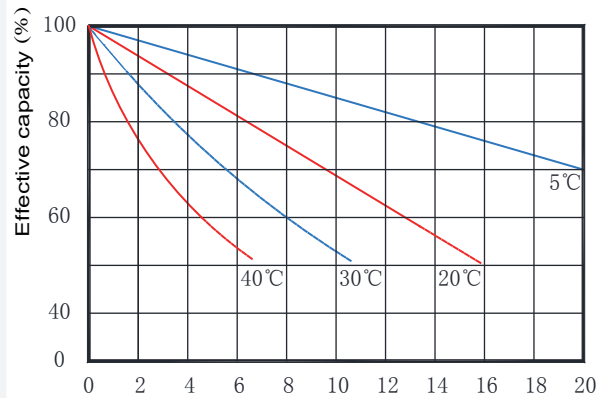
### Discharge characteristics at Various Rates (25°C/77°F)



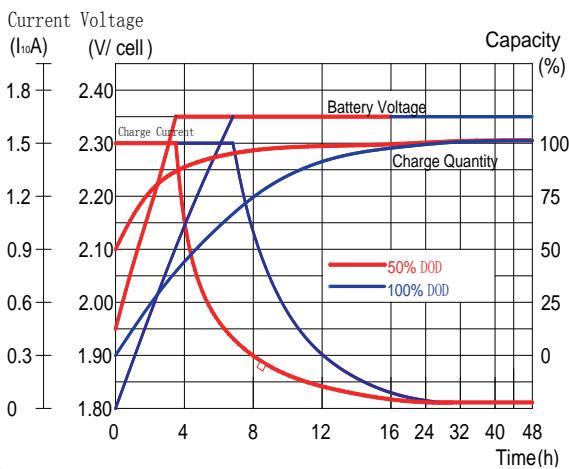
### Temperature and discharge capacity



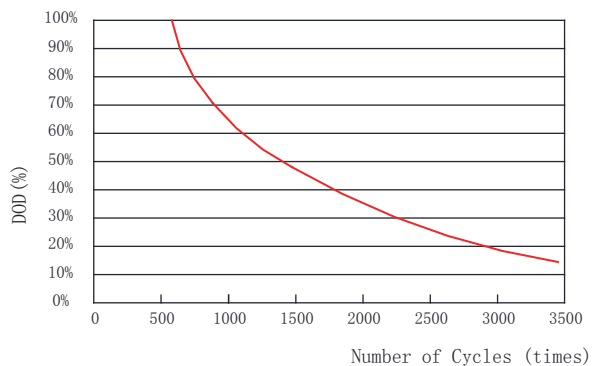
### self discharge parameters characteristics



### Constant-potential charge



### Cycle Service Life (25°C/77°F)



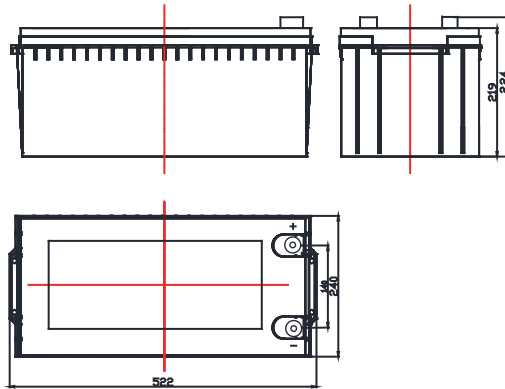
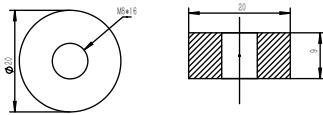
**Note** The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice.



# LCPC 200-12 GEL BATTERY



端子型号



## Features

CNBM" battery ,Maintenance free and easy to use, Contemporary advanced technology research and development of new high-performance batteries,It can be widely used in solar energy , wind energy , telecommunication systems , off-grid systems , UPS and other fields.The designed life for the battery could be eight years up for float use.

## Technology data

| Reted Voltage  | Capacity (10hr,1.80V/Cell) | Weight   | Max Discharge Current  | Max Charge Current | Self-Discharge (25℃)                                      | Recommended Using Temperature           | Cover Material |
|--|----------------------------|--|--|--------------------|---|---|----------------|
| 12V  | 200Ah                      | 59Kg   | 30I10A (3min)  | ≤0.25C10           | <3%/month   | 15℃~25℃                                 | ABS            |
| Using Temperature  |                            | Charge Voltage (25℃)                                     | Charge Mode(25℃)   |                    | Cycle life  | Capacity Affected by Temperature        |                |
| Discharge: -45℃~50℃<br>Charge: -20℃~45℃<br>Storage: -30℃~40℃ |                            | Float Charge: 13.5V-13.8V<br>Average Charge: 14.4V-14.7V | Float Charge:2.275±0.025V/Cell<br>Temperature Compensation Coefficient :±3 mV/Cell ℃<br>Cycle Charge:2.45±0.05V/Cell<br>Temperature Compensation Coefficient: ±5 mV/Cell ℃ |                    | 100%DOD 572times<br>50%DOD 1422 times<br>30%DOD 2218times | 105 % @ 40℃<br>85 % @ 0℃<br>60 % @ -20℃ |                |

## Certificate

ISO9001  
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CGC  
TLC

High and New Technology Products Certification

Standards:

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YD/T799-2002  
JISC8704-2:1999

## Different discharge time at different terminal Voltage,discharge time(Amps,25)

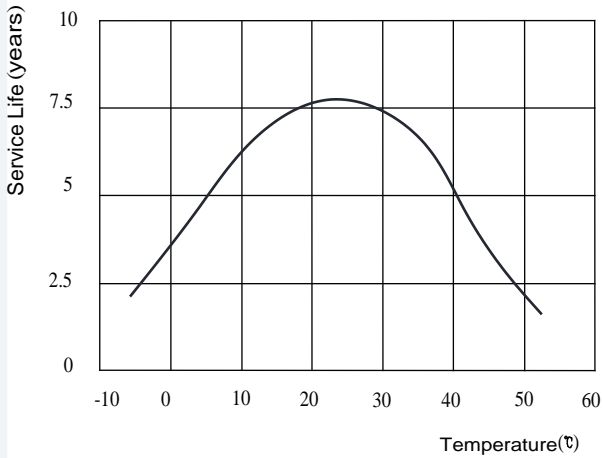
Constant current discharge coefficient (25℃, A)

| Terminal Voltage (v/Cell) | 1H     | 3H    | 5H    | 10H   | 20H   | 50H  | 100H | 120H | 240H |
|---------------------------|--------|-------|-------|-------|-------|------|------|------|------|
| 1.7                       | 106.20 | 48.28 | 32.27 | 20.81 | 10.75 | 4.52 | 2.45 | 2.17 | 1.15 |
| 1.75                      | 104.08 | 47.79 | 31.69 | 20.52 | 10.50 | 4.35 | 2.29 | 2.03 | 1.07 |
| 1.8                       | 102.00 | 47.33 | 31.20 | 20.00 | 10.25 | 4.20 | 2.20 | 1.89 | 1.01 |
| 1.85                      | 97.92  | 47.07 | 30.60 | 19.17 | 9.75  | 4.03 | 2.05 | 1.77 | 0.92 |
| 1.9                       | 94.01  | 46.65 | 30.15 | 18.77 | 9.58  | 3.91 | 1.99 | 1.69 | 0.87 |
| 1.95                      | 89.88  | 45.72 | 29.52 | 17.73 | 8.92  | 3.63 | 1.88 | 1.61 | 0.83 |

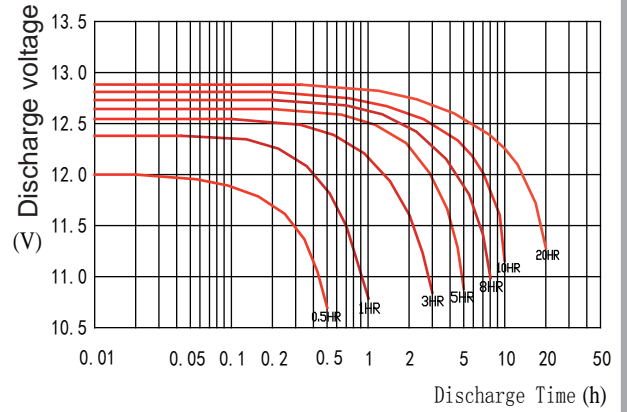


## Performance characteristics

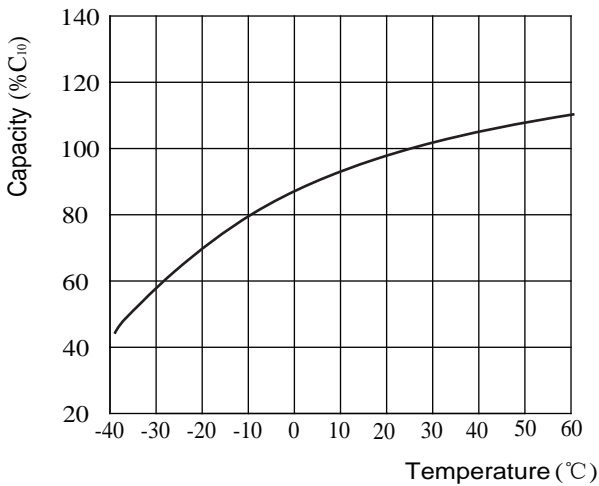
### Temperature and Service life



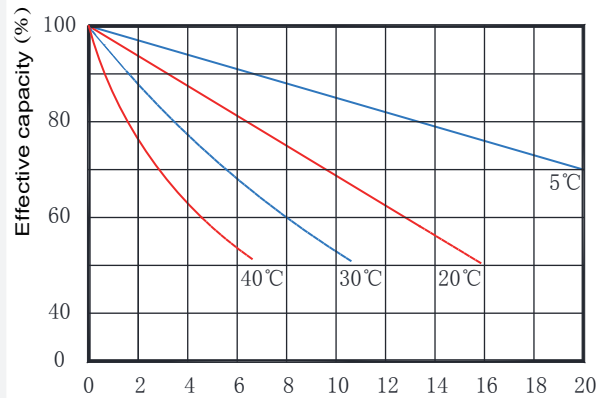
### Discharge characteristics at Various Rates (25°C/77°F)



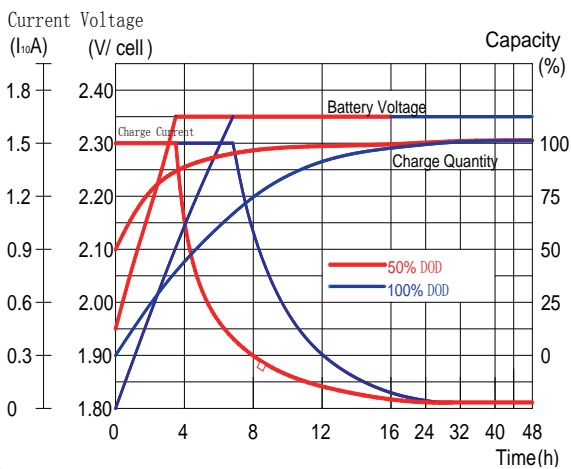
### Temperature and discharge capacity



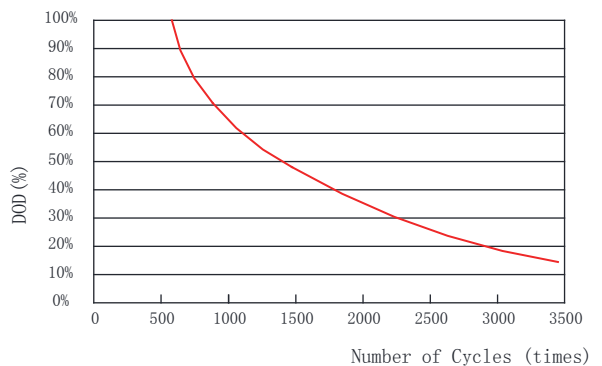
### self discharge parameters characteristics



### Constant-potential charge



### Cycle Service Life (25°C/77°F)



**Note** The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice.

