# LBP12200 (12V 200Ah)

## Specifications

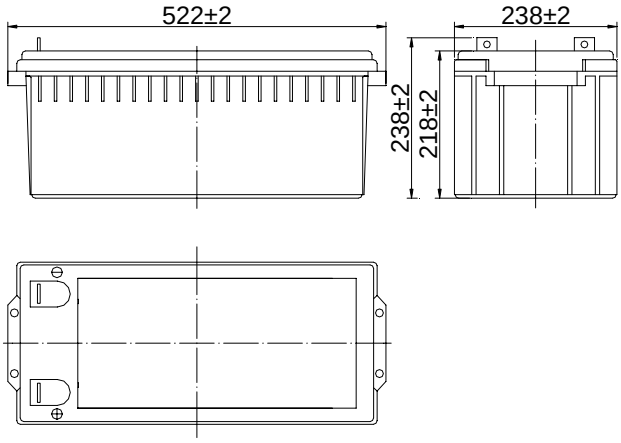
| | | |
|---|---|---|
| Nominal Voltage | | 12 V |
| Capacity (25℃) | 10HR(10.8V) | 200 Ah |
| | 5HR(10.5V) | 175Ah |
| | 1HR(9.60V) | 124Ah |
| Dimension | Length | 522±2mm (20.55inch) |
| | Width | 238±2mm (9.37inch) |
| | Height | 218±2mm (8.58inch) |
| | Total Height | T5: 238±2mm (9.37inch) |
| | | T11: 221±2mm (8.70inch) |
| Approx. Weight | | 60.5kg (133lbs)±3% |
| Terminal type | | T5/T11 |
| Internal resistance (Fully charged, 25℃) | | Approx. 3mΩ |
| Capacity affected by temperature (10HR) | 40℃ | 102% |
| | 25℃ | 100% |
| | 0℃ | 85% |
| | -15℃ | 65% |
| Self-discharge (25℃) | 3 month | Remaining Capacity: 91% |
| | 6 month | Remaining Capacity: 82% |
| | 12 month | Remaining Capacity: 65% |
| Nominal operating temperature | | 25℃±3℃(77℉±5℉) |
| Operating temperature range | Discharge | -15℃～50℃(5℉～122℉) |
| | Charge | -10℃～50℃(14℉～122℉) |
| | Storage | -20℃～50℃(-4℉～122℉) |
| Float charging voltage(25℃) | | 13.50 to 13.80V<br>Temperature compensation: -18mV/℃ |
| Cyclic charging voltage(25℃) | | 14.50 to 14.90V<br>Temperature compensation: -30mV/℃ |
| Maximum charging current | | 60A |
| Terminal material | | Copper |
| Maximum discharge current | | 1600A(5 sec.) |
| Designed floating life(20℃) | | 12 years |

◆ Absorbent glass mat technology;

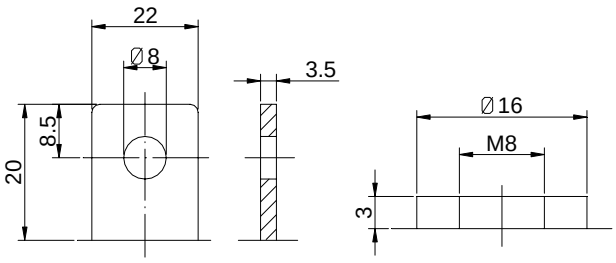
◆ Recognized by UL & CE;

◆ ABS container.

**Dimensions**




**Terminal**




Terminal T5 Terminal T11

## Constant Current Discharge Characteristics (A, 25℃)

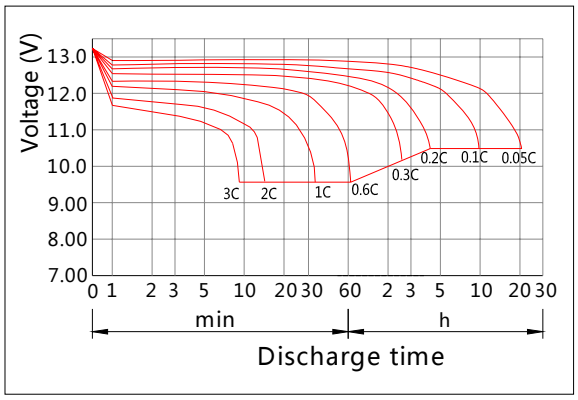
| F.V/TIME | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9.60V | 394 | 330 | 200 | 124 | 73.1 | 51.0 | 41.8 | 35.7 | 31.2 | 24.5 | 20.4 | 10.7 |
| 9.90V | 382 | 322 | 196 | 122 | 72.6 | 50.7 | 41.6 | 35.5 | 31.0 | 24.3 | 20.3 | 10.7 |
| 10.2V | 366 | 310 | 190 | 119 | 72.0 | 50.4 | 41.3 | 35.2 | 30.8 | 24.2 | 20.3 | 10.6 |
| 10.5V | 350 | 300 | 185 | 117 | 70.9 | 50.0 | 41.0 | 35.0 | 30.6 | 24.0 | 20.1 | 10.6 |
| 10.8V | 331 | 284 | 179 | 113 | 69.1 | 48.5 | 39.8 | 34.0 | 29.7 | 23.3 | 20.0 | 10.5 |

## Constant Power Discharge Characteristics (Watt, 25℃)

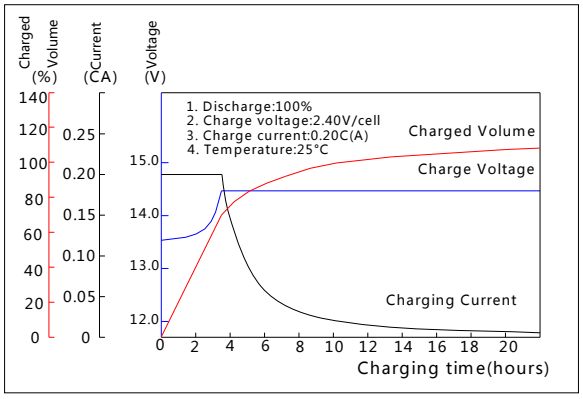
| F.V/TIME | 10min | 15min | 30min | 60min | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9.60V | 4253 | 3623 | 2244 | 1414 | 846 | 600 | 492 | 422 | 369 | 291 | 243 | 128 |
| 9.90V | 4125 | 3536 | 2199 | 1392 | 841 | 596 | 489 | 419 | 367 | 289 | 243 | 128 |
| 10.2V | 3955 | 3406 | 2132 | 1357 | 834 | 592 | 486 | 417 | 364 | 287 | 242 | 128 |
| 10.5V | 3785 | 3290 | 2080 | 1330 | 821 | 588 | 482 | 414 | 362 | 285 | 240 | 127 |
| 10.8V | 3573 | 3116 | 2004 | 1289 | 800 | 570 | 468 | 401 | 351 | 277 | 239 | 126 |

Note: The above characteristics data can be obtained within three charge/discharge cycles.

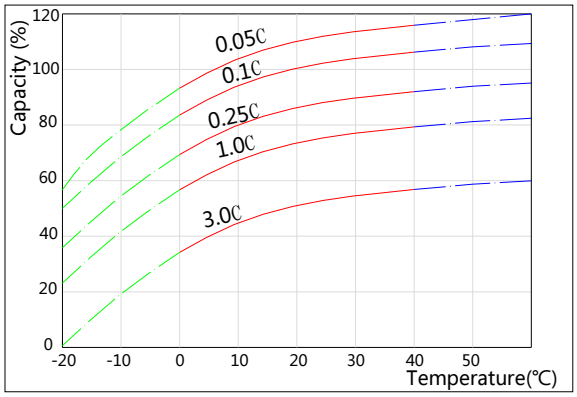
## Discharge Characteristics(25℃)



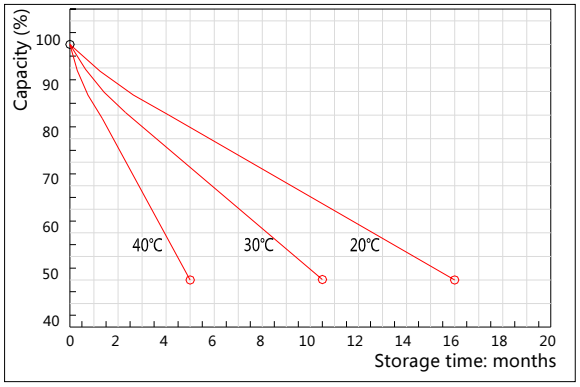

## Charging Characteristics(25℃)



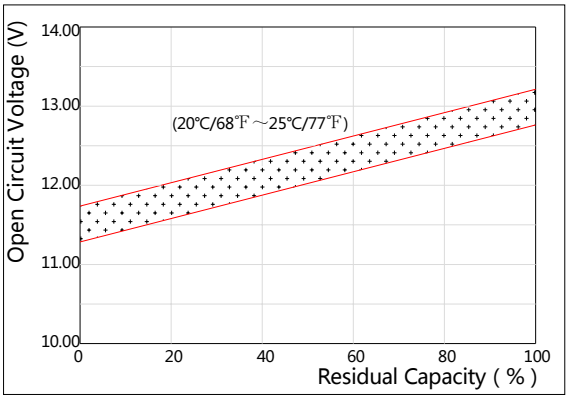

## Effect of Temperature on Capacity



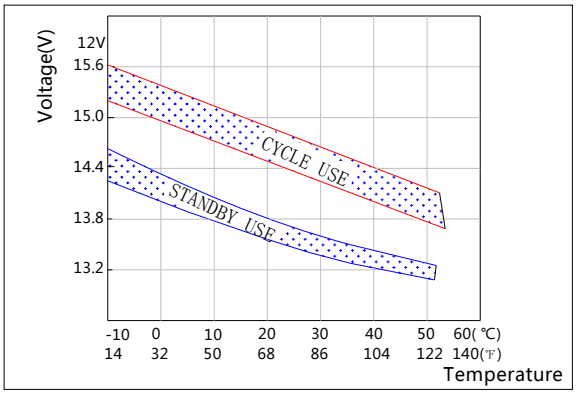

## Self-discharge Characteristics



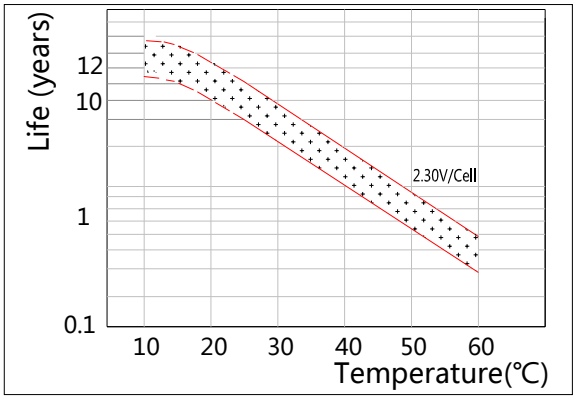

## The Relationship for Open Circuit Voltage and Residual Capacity (25℃)

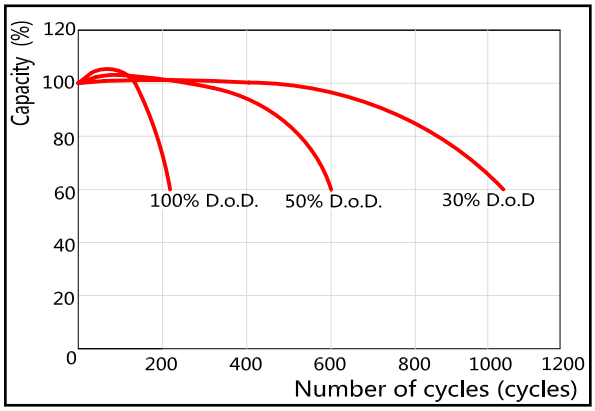



## The Relationship for Charging Voltage and Temperature




## Floating Life on Temperature




## Cycle Life on D.O.D(25℃)