

# NM12-200L

**12V 200Ah / 10hr rate****BATTERY**  
**Genergy**

## Introduction

**Genergy NML (Long life) Series** is designed for solar and renewable energy system. The series is featured of its long service life. It is widely used in solar and wind power system, UPS and power utility.

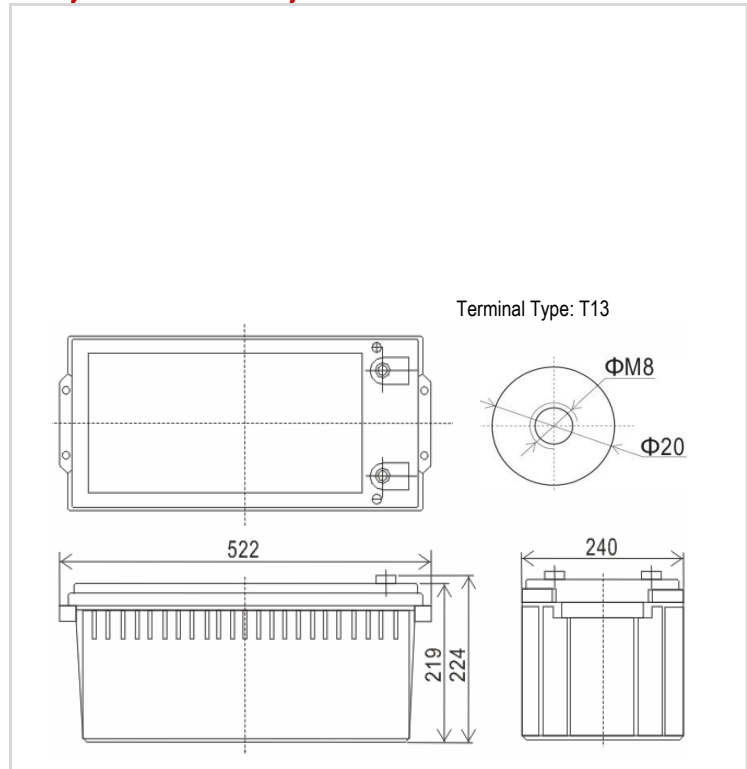
## Battery Features

- Increase durability and deep cycle ability for heavy demand applications
- Low self-discharge
- Fully tank formed plates
- Low impurity electrolyte
- Spill proof / leak proof
- Multi-position usage
- ABS case and cover VO upon request
- Very high purity lead

## Electrical Specification

|                                                                                                              |              |
|--------------------------------------------------------------------------------------------------------------|--------------|
| Design floating Life @ 20°C (68°F)                                                                           | 10 years     |
| Nominal Capacity @ 25°C /77°F                                                                                |              |
| 20 hour rate 10.8A to 1.75Vpc                                                                                | 216 Ah       |
| 10 hour rate 20.61A to 1.75Vp                                                                                | 206.1 Ah     |
| Internal Resistance                                                                                          |              |
| (Fully charged battery @ 25°C /77°F )                                                                        | 3.5mΩ        |
| Max. Discharge Current @ 25°C /77°F                                                                          | 2000 A (5S)  |
| Charge Methods: Constant voltage charge @ 25°C /77°F                                                         |              |
| Cycle Use                                                                                                    | 14.7 ~ 14.9V |
| Max. Current                                                                                                 | 53 A         |
| Standby Use                                                                                                  | 13.6 - 13.8V |
| Operating Temperature Range                                                                                  | -30 ~ 50°C   |
| <i>Notes: battery voltage must be adjusted according to temperature. Please refer to our recommendation.</i> |              |
| Self-Discharge                                                                                               |              |
| 3% of capacity declined per month @ 25°C (77°F).                                                             |              |

## Battery Picture & Terminal Layout



## Dimension & Weight

| Length    | Dimension (± 2mm) |          |              | Weight<br>(± 2%) |
|-----------|-------------------|----------|--------------|------------------|
|           | Width             | Height   | Total Height |                  |
| 522 mm    | 240 mm            | 219 mm   | 224 mm       | 61.5 kg          |
| 20.6 inch | 9.4 inch          | 8.6 inch | 8.8 inch     | 135.6 lbs        |

## Typical Applications

- Solar Energy System
- Wind Energy System
- Power Utility
- UPS/EPS

## Constant Current Discharge (Amperes @ 25°C /77°F)

| V/cell | 10min | 15min | 20min | 25min | 30min | 35min | 40min | 45min | 50min | 55min | 1hr   | 2hr   | 3hr   | 4hr   | 5hr   | 10hr | 20hr |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| 1.60   | 493.4 | 376.6 | 326.8 | 277.0 | 238.1 | 212.8 | 198.5 | 184.1 | 170.2 | 158.6 | 148.5 | 81.68 | 59.17 | 49.28 | 41.09 | 21.5 | 11.3 |
| 1.65   | 468.5 | 357.6 | 310.6 | 263.6 | 227.5 | 203.2 | 189.8 | 176.4 | 163.5 | 152.8 | 143.7 | 78.91 | 56.93 | 47.32 | 39.41 | 21.0 | 11.0 |
| 1.70   | 449.1 | 342.9 | 298.4 | 253.9 | 220.2 | 196.5 | 183.6 | 170.7 | 158.4 | 148.2 | 139.6 | 76.53 | 55.62 | 46.21 | 38.49 | 20.8 | 10.9 |
| 1.75   | 428.4 | 327.0 | 285.0 | 243.0 | 212.0 | 189.1 | 177.1 | 165.1 | 153.6 | 144.3 | 136.6 | 74.74 | 54.40 | 45.19 | 37.68 | 20.6 | 10.8 |
| 1.80   | 406.3 | 310.2 | 271.0 | 231.9 | 203.7 | 181.5 | 170.2 | 158.9 | 148.1 | 139.5 | 132.5 | 72.36 | 53.08 | 44.08 | 36.77 | 20.3 | 10.6 |

## Constant Power Discharge (Watts/cell @ 25°C /77°F)

| V/cell | 10min | 15min | 20min | 25min | 30min | 35min | 40min | 45min | 50min | 55min | 1hr   | 2hr    | 3hr    | 4hr   | 5hr   | 10hr | 20hr |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|------|------|
| 1.60   | 856.8 | 654.1 | 575.6 | 497.2 | 430.8 | 390.9 | 363.1 | 335.3 | 308.3 | 286.6 | 269.5 | 147.01 | 107.51 | 91.30 | 75.79 | 42.1 | 22.2 |
| 1.65   | 826.4 | 630.9 | 556.3 | 481.8 | 419.4 | 380.6 | 353.8 | 327.1 | 301.0 | 280.4 | 264.4 | 144.03 | 106.49 | 90.28 | 74.77 | 41.7 | 22.2 |
| 1.70   | 794.6 | 606.6 | 535.7 | 464.7 | 405.9 | 368.5 | 343.1 | 317.8 | 293.1 | 273.9 | 259.2 | 141.05 | 104.47 | 88.71 | 73.66 | 40.9 | 21.9 |
| 1.75   | 760.1 | 580.2 | 513.3 | 446.3 | 391.4 | 355.4 | 331.4 | 307.5 | 284.2 | 266.4 | 253.1 | 137.48 | 101.43 | 86.53 | 72.34 | 40.6 | 21.5 |
| 1.80   | 722.8 | 551.7 | 489.1 | 426.4 | 375.9 | 341.2 | 318.7 | 296.1 | 274.2 | 257.8 | 245.9 | 133.31 | 98.69  | 84.36 | 70.72 | 40.2 | 21.3 |

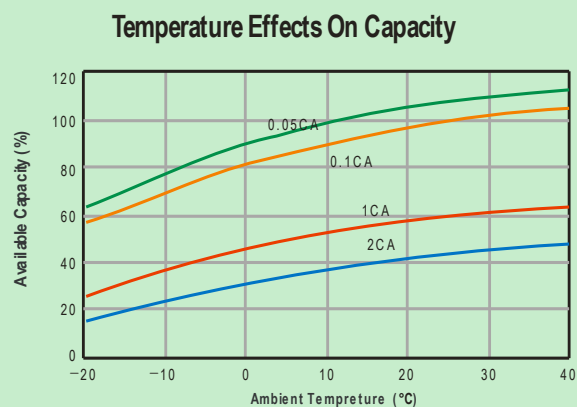
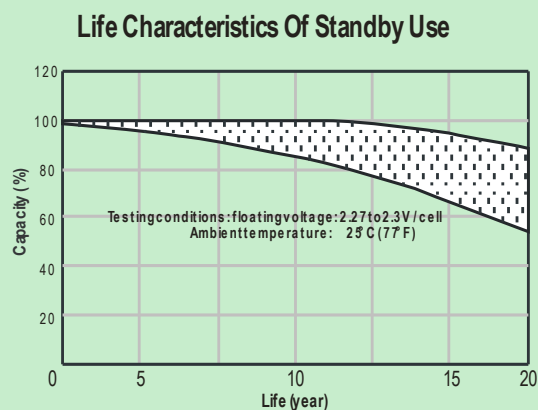
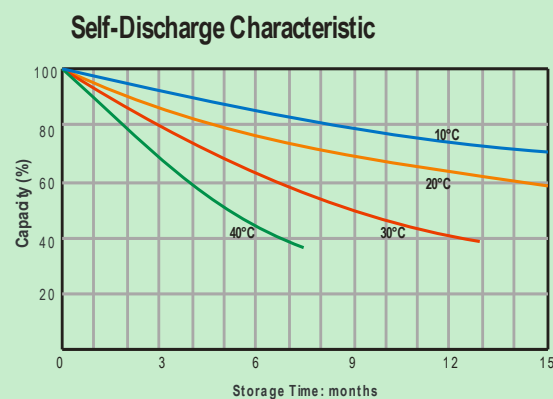
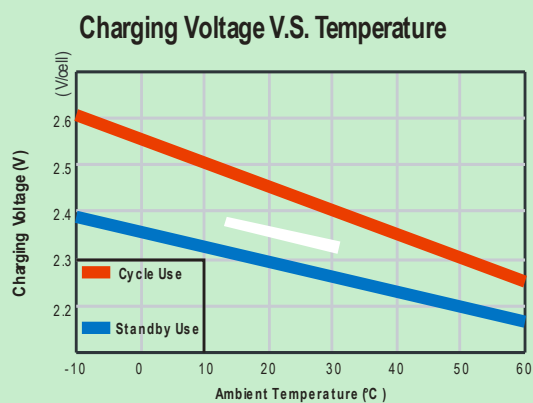
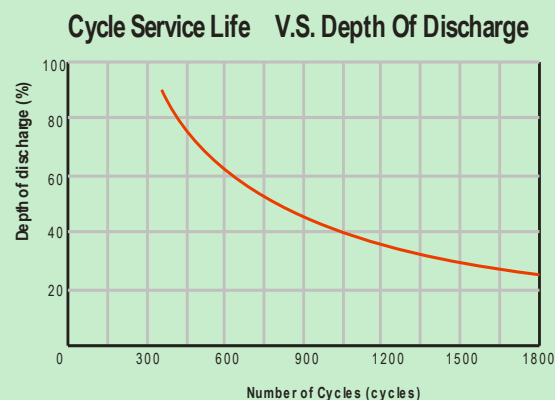
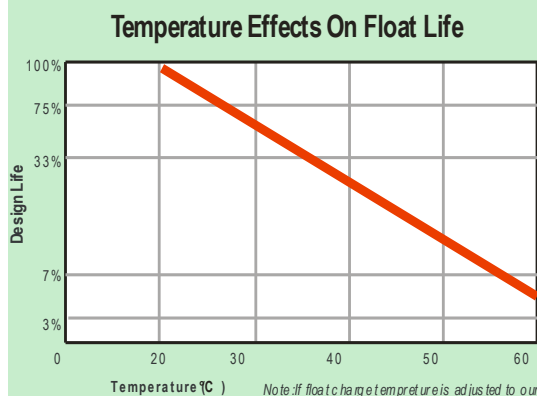
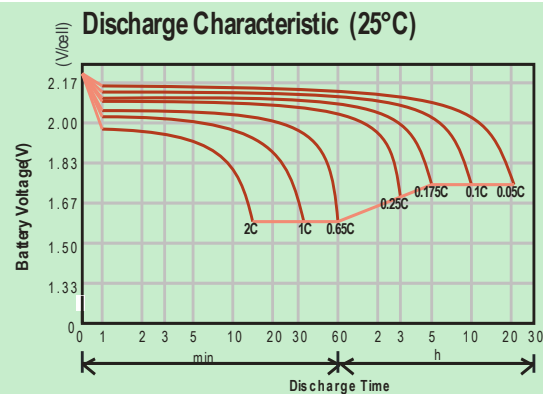
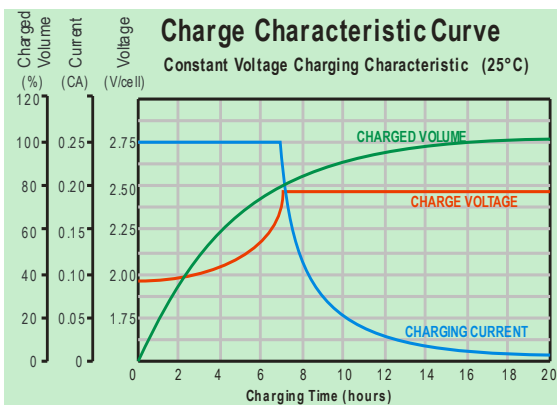
Subject to revision without notice. Please contact our sales representatives for latest version.

Web: [www.genergybattery.com](http://www.genergybattery.com) | Email: [sales@genergybattery.com](mailto:sales@genergybattery.com)

# NM12-200L

**12V 200Ah / 10hr rate****BATTERY**  
**Genenergy**

## Graphs



Subject to revision without notice. Please contact our sales representatives for latest version.

Web: [www.genenergybattery.com](http://www.genenergybattery.com) | Email: [sales@genenergybattery.com](mailto:sales@genenergybattery.com)