



# JH Series High-Rate battery JH12-710W

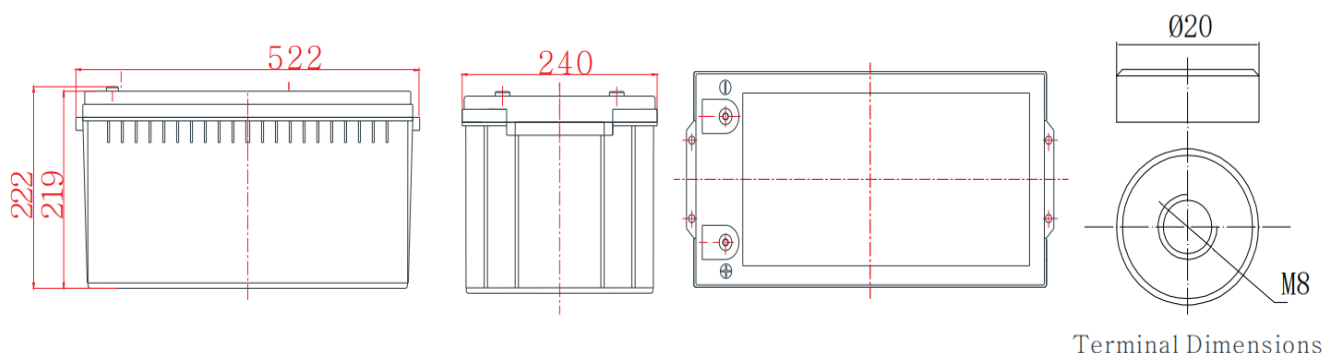
## General Features

- High corrosion resistant performance: Pb-Ca multi-alloy grid
- High energy density and power density
- Optimized capability of instant high-current discharging
- Excellent charge acceptance ability
- Excellent deep cycle discharge capability
- Strong high and low temperature performance
- Precision sealing technology
- Long life



Dimension: 522(L) × 240(W) × 219(H) × 222(TH) / (±3)

Unit: mm



Terminal Dimensions

| Specification                               |                                             |
|---------------------------------------------|---------------------------------------------|
| Nominal Voltage                             | 12V                                         |
| Nominal Capacity                            | 710W@ 1.5 min- rate to 1.67V per cell@ 25°C |
| Design life                                 | 10 years                                    |
| Terminal                                    | M8                                          |
| Approx. Weight                              | Approx 62.0 ± 3%kg (136.7 ± 3%lbs)          |
| Container Material                          | ABS(UL94-HB, UL94-V0 Optional)              |
| short-circuit current                       | 3636A                                       |
| Internal resistance(Full charged at 25°C: ) | 3.3 mΩ                                      |
| Self discharge                              | 3% of capacity declined per month at 25°C   |
| Operating Temperature                       |                                             |
| Discharge:                                  | -20 ~50°C(-4~ 122°F)                        |
| Charge :                                    | -20 ~50°C(-4~ 122°F)                        |
| Storage:                                    | -20 ~50°C(-4~ 122°F)                        |
| Charge Method ( 25 ° C)                     |                                             |
| Charge current:                             | Max. 52.5A; Recom. 21.0A                    |
| Float charge: 13.5-13.8V                    | recom. 13.8V(-18mV/ °C)                     |
| Equalize charge: 13.8-14.1V                 | recom. 14.1V(-24mV/ °C)                     |
| Cycle charge: 14.4-15.0V                    | recom. 14.7V(-30mV/ °C)                     |

## Standards

Executive standard: IEC 60896-21/22, GB/T 19638.1-2014, YD/T 3427-2018

## Applications

- UPS/EPS
- Power systems
- Telecommunications system
- Emergency lighting, Auto control system
- Solar/wind generating storage cyclic
- Other general purpose

## Rated Capacity

|                              |         |
|------------------------------|---------|
| 10Hour Rate (21.0A to 10.8V) | 210.0Ah |
| 3Hour Rate (57.9A to 10.2V)  | 173.7Ah |
| 1Hour Rate (145.8A to 9.6V)  | 145.8Ah |

## Attain Certificate

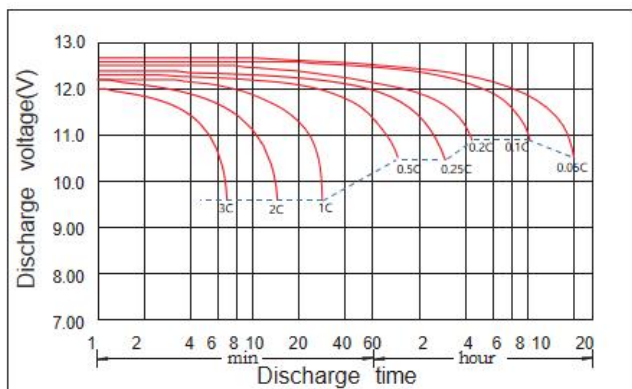


Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

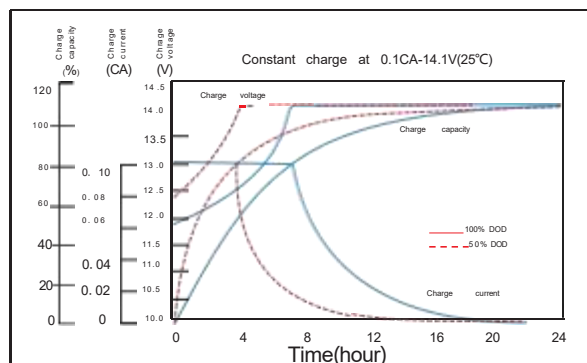


# JH Series High-Rate battery JH12-710W

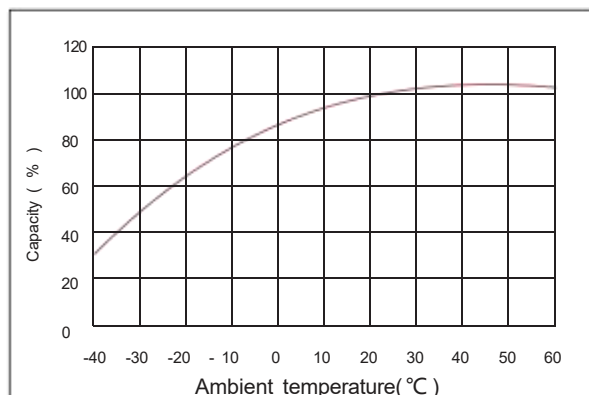
## Discharge characteristic



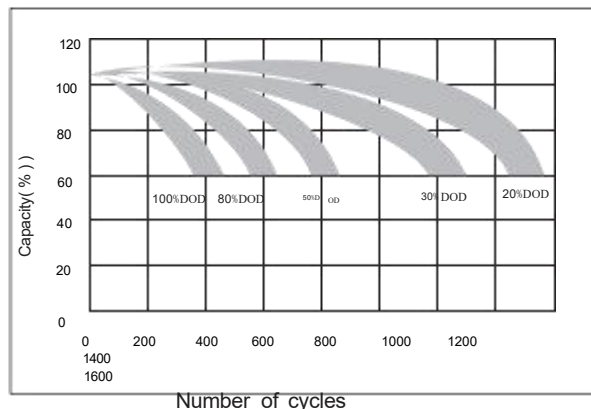
## Charging characteristic



## The effect of temperature on capacity



## The effect of discharge depth on cycle life



## Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

| FV/Time | 5min  | 10min | 15min | 30min | 45min | 1h    | 1.5h  | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  |
|---------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 1.60V   | 623.6 | 527.8 | 433.9 | 260.5 | 185.2 | 145.8 | 104.7 | 82.7 | 59.4 | 47.0 | 39.2 | 33.4 | 26.4 | 22.4 | 11.7 |
| 1.67V   | 560.6 | 487.8 | 404.6 | 254.6 | 181.6 | 144.4 | 103.4 | 81.0 | 58.5 | 46.1 | 38.5 | 32.9 | 26.1 | 22.0 | 11.5 |
| 1.70V   | 531.5 | 459.4 | 390.7 | 248.6 | 179.7 | 141.4 | 102.9 | 80.5 | 57.9 | 45.3 | 38.0 | 32.5 | 25.6 | 21.9 | 11.4 |
| 1.75V   | 496.5 | 430.6 | 369.5 | 238.0 | 171.8 | 135.1 | 98.6  | 77.7 | 56.2 | 44.2 | 37.0 | 32.0 | 25.2 | 21.3 | 11.3 |
| 1.80V   | 454.8 | 402.0 | 349.5 | 227.8 | 165.3 | 130.9 | 94.9  | 74.9 | 54.4 | 42.8 | 36.1 | 30.9 | 24.8 | 21.0 | 11.2 |
| 1.85V   | 390.4 | 340.5 | 300.6 | 201.7 | 145.9 | 117.5 | 86.5  | 68.6 | 50.3 | 39.8 | 33.6 | 29.0 | 23.3 | 20.0 | 10.6 |

## Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

| FV/Time | 5min  | 10min | 15min | 30min | 45min | 1h    | 1.5h  | 2h    | 3h    | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 1.60V   | 1085  | 875.0 | 729.1 | 426.5 | 308.8 | 247.0 | 178.4 | 141.2 | 102.4 | 81.3 | 68.1 | 58.3 | 46.5 | 39.7 | 20.8 |
| 1.67V   | 962.2 | 823.4 | 710.0 | 423.4 | 306.5 | 246.8 | 177.6 | 139.5 | 101.4 | 80.2 | 67.3 | 57.6 | 46.1 | 39.1 | 20.5 |
| 1.70V   | 951.9 | 790.5 | 669.5 | 415.4 | 304.6 | 242.4 | 177.4 | 139.0 | 100.6 | 79.1 | 66.5 | 57.1 | 45.3 | 38.9 | 20.3 |
| 1.75V   | 882.2 | 745.5 | 631.8 | 401.9 | 293.5 | 233.0 | 170.8 | 134.8 | 98.0  | 77.3 | 65.1 | 56.4 | 44.7 | 37.9 | 20.1 |
| 1.80V   | 813.5 | 701.3 | 602.4 | 388.5 | 284.7 | 227.2 | 165.3 | 130.6 | 95.3  | 75.3 | 63.6 | 54.6 | 44.0 | 37.4 | 19.9 |
| 1.85V   | 709.7 | 618.3 | 535.8 | 347.4 | 253.3 | 205.1 | 151.5 | 120.3 | 88.4  | 70.2 | 59.5 | 51.5 | 41.6 | 35.8 | 19.0 |