

## 6-DZF-20.3 (25AH)



### Applications

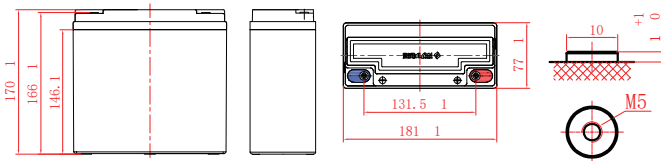
- › Electric vehicle
- › Electric wheelchair
- › Electric scooter
- › Electric play car for children
- › Garbage truck
- › Patrol car

### General Features

- › High Corrosion Resistant Performance: Pb-Ca multi-alloy grid
- › High Energy Density and Power Density
- › Excellent Charge Acceptance Ability
- › Strong High and Low Temperature Performance
- › Optimized Capability of instant High-current Discharging
- › Low self-discharge rate



Dimension: 181(L)×77(W)×170(H)×170(TH) Unit: mm



### Specification

|                       |   |
|-----------------------|---|
| Nominal Voltage       | 12V   |
| Nominal Capacity      | 20.3Ah  |
| Design life           | 5 years   |
| Terminal              | M5  |
| Approx. Weight        | Approx. 6.15kg (13.6lbs)  |
| Container Material    | ABS   |
| Rated Capacity        | <b>24.0Ah</b> 10Hour Rate (2.40A to 10.5V)<br><b>20.3Ah</b> 2Hour Rate (10.15A to 10.5V)<br><b>16.0Ah</b> 1Hour Rate (16.0A to 10.5V) |
| Operating Temperature | Discharge: -20 ~50°C (-4 ~ 122°F)<br>Charge: -20 ~50°C (-4 ~ 122°F)<br>Storage: -20 ~50°C (-4 ~ 122°F)                                |
| Charge Method (25 °C) | Float Use: 13.7-13.9V@25°C<br>Cycle Use :14.7-14.9V,@25°C<br>Max charge current 3.05A   |
| Self discharge        | 3% of capacity declined per month at 25°C   |

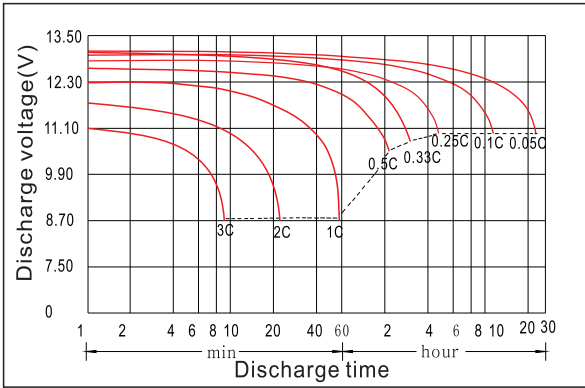
### Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

| FV/Time | 5min | 15min | 30min | 1h   | 2h    | 3h   | 5h   | 8h   | 10h  | 20h  |
|---------|------|-------|-------|------|-------|------|------|------|------|------|
| 1.60V   | 93.5 | 50.1  | 29.4  | 16.5 | 10.5  | 7.36 | 4.74 | 2.93 | 2.47 | 1.28 |
| 1.65V   | 90.5 | 48.7  | 28.8  | 16.4 | 10.4  | 7.30 | 4.71 | 2.90 | 2.45 | 1.27 |
| 1.70V   | 87.0 | 47.8  | 28.2  | 16.2 | 10.3  | 7.19 | 4.66 | 2.88 | 2.42 | 1.27 |
| 1.75V   | 79.9 | 46.0  | 28.0  | 16.0 | 10.15 | 7.10 | 4.60 | 2.85 | 2.40 | 1.26 |
| 1.80V   | 71.7 | 43.1  | 26.8  | 15.6 | 10.0  | 7.07 | 4.49 | 2.85 | 2.38 | 1.25 |
| 1.85V   | 64.0 | 38.3  | 24.4  | 14.5 | 9.46  | 6.66 | 4.26 | 2.72 | 2.30 | 1.23 |

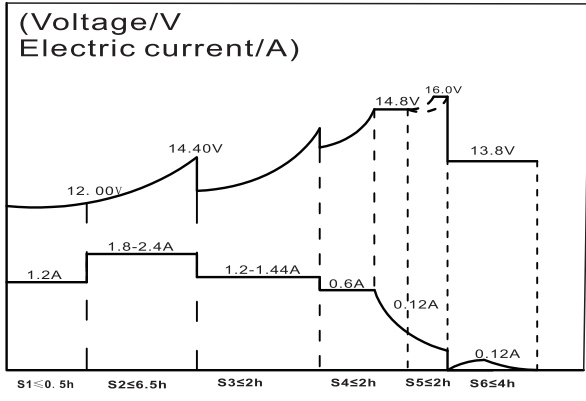
### Constant Power Discharge Characteristics Unit: W/cell(25°C, 77°F)

| FV/Time | 5min | 15min | 30min | 1h   | 2h   | 3h   | 5h   | 8h   | 10h  | 20h  |
|---------|------|-------|-------|------|------|------|------|------|------|------|
| 1.60V   | 157  | 88.5  | 53.1  | 31.2 | 19.7 | 14.0 | 9.00 | 5.70 | 4.75 | 2.53 |
| 1.65V   | 151  | 87.0  | 52.5  | 31.0 | 19.7 | 13.8 | 8.95 | 5.65 | 4.70 | 2.52 |
| 1.70V   | 150  | 85.8  | 52.5  | 30.7 | 19.6 | 13.8 | 8.89 | 5.62 | 4.65 | 2.51 |
| 1.75V   | 140  | 85.5  | 52.2  | 30.4 | 19.5 | 13.7 | 8.84 | 5.60 | 4.62 | 2.50 |
| 1.80V   | 129  | 80.8  | 50.8  | 30.2 | 19.4 | 13.6 | 8.72 | 5.54 | 4.57 | 2.48 |
| 1.85V   | 115  | 72.2  | 46.6  | 28.0 | 18.6 | 13.0 | 8.33 | 5.36 | 4.49 | 2.46 |

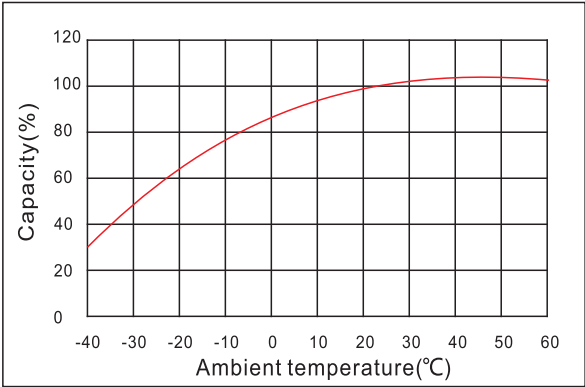
### Discharge characteristic



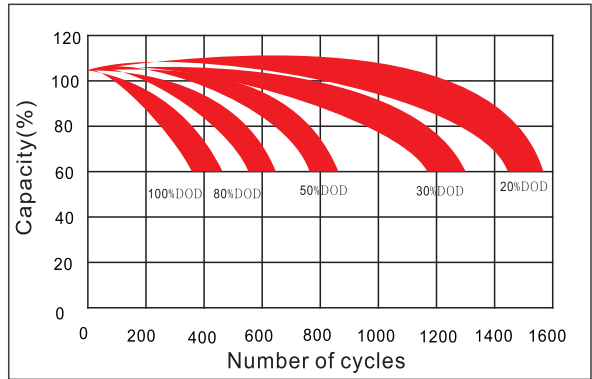
### Charging characteristic



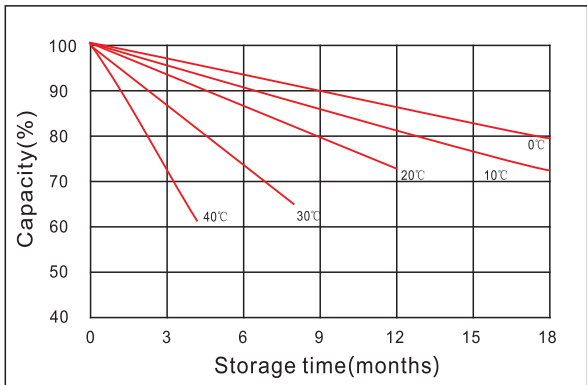
### The effect of temperature on capacity



### The effect of discharge depth on cycle life



### Curves of self-discharge



### Curves of open circuit voltage vs. capacity

