



Electric vehicle battery expert 6-DZFG-20L



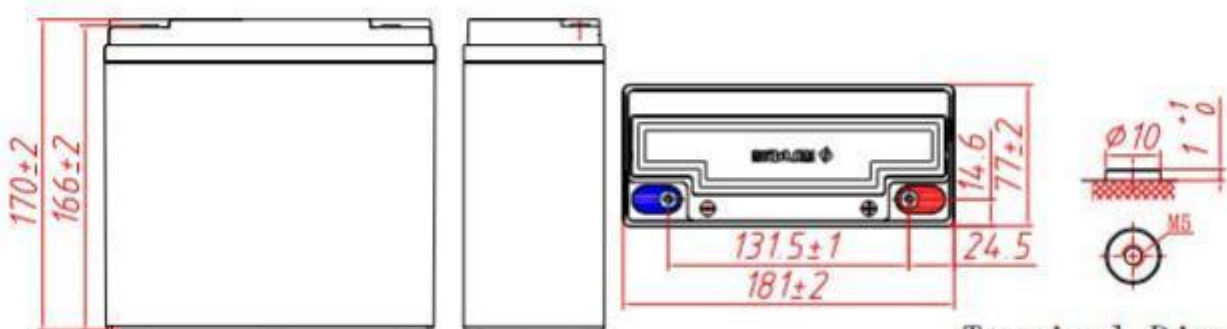
## General Features

- 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
- Strong high and low temperature performance
- Low self-discharge rate



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

Unit: mm



Terminal Dimensions

| Specification                |                                          |
|------------------------------|------------------------------------------|
| Nominal Voltage              | 12V                                      |
| Nominal Capacity             | 20Ah @2Hour-rate to 1.75V per cell @25℃  |
| Design life                  | 5 years                                  |
| Terminal                     | M5                                       |
| Approx. Weight               | Approx. 5.90kg±3% (13.01lbs±3%)          |
| Container Material           | ABS                                      |
| Self discharge               | 3% of capacity declined per month at 25℃ |
| Rated Capacity               |                                          |
| 20Hour Rate (1.25A to 10.5V) | 25.0Ah                                   |
| 5Hour Rate (4.6A to 10.5V)   | 23.0Ah                                   |
| 2Hour Rate (10.0A to 10.5V)  | 20.0Ah                                   |
| Operating Temperature        |                                          |
| Discharge:                   | -20 ~50℃(-4~ 122°F)                      |
| Charge :                     | -20 ~50℃(-4~ 122°F)                      |
| Storage:                     | -20 ~50℃(-4~ 122°F)                      |
| Charge Method(25 °C)         |                                          |
| Max charge current           | 3.05A                                    |
| Float Use:                   | 13.7-13.9V@25                            |
| Cycle Use :                  | 14.7-14.9V,@25                           |

## Standards

Executive standard :T/ZJXDC 001-2021

## Applications

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

## 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.

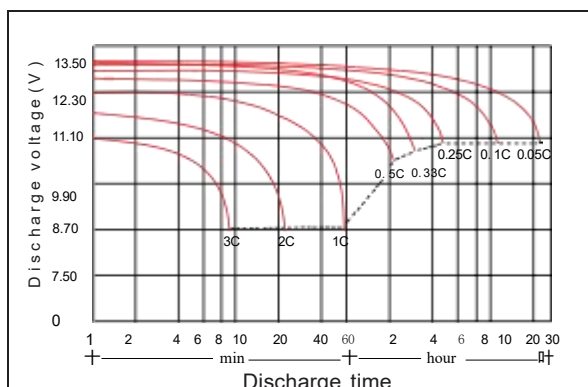


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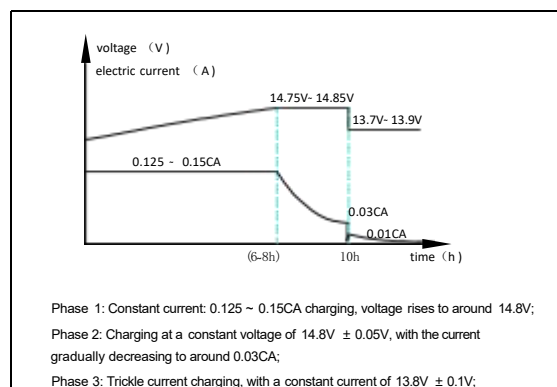
6-DZFG-20L



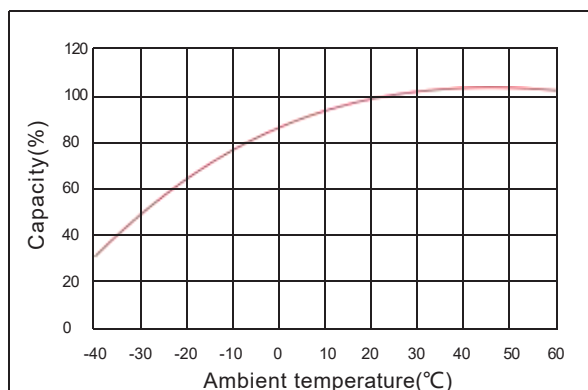
## Discharge characteristic



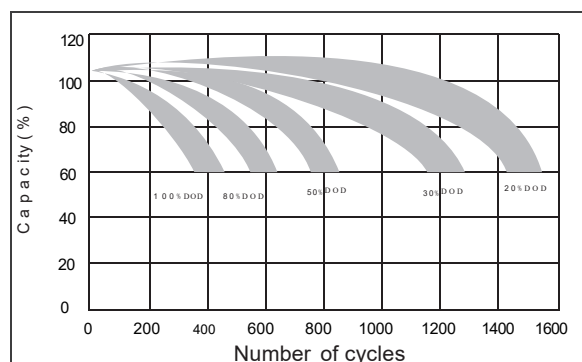
## Charging characteristic



## The effect of temperature on capacity



## The effect of discharge depth on cycle life



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

| FV/Time | 30min | 1h   | 2h    | 3h   | 5h   | 8h    | 10h   | 20h   |
|---------|-------|------|-------|------|------|-------|-------|-------|
| 1.60V   | 29.4  | 16.5 | 10.50 | 7.36 | 4.74 | 2.930 | 2.470 | 1.290 |
| 1.65V   | 28.8  | 16.4 | 10.40 | 7.30 | 4.71 | 2.900 | 2.450 | 1.285 |
| 1.70V   | 28.2  | 16.2 | 10.30 | 7.19 | 4.66 | 2.880 | 2.420 | 1.280 |
| 1.75V   | 28.0  | 16.0 | 10.00 | 7.10 | 4.60 | 2.850 | 2.400 | 1.270 |
| 1.80V   | 26.8  | 15.6 | 9.93  | 7.07 | 4.49 | 2.850 | 2.380 | 1.260 |
| 1.85V   | 24.4  | 14.5 | 9.46  | 6.66 | 4.26 | 2.720 | 2.300 | 1.240 |

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

| FV/Time | 30min | 1h   | 2h    | 3h    | 5h   | 8h    | 10h   | 20h   |
|---------|-------|------|-------|-------|------|-------|-------|-------|
| 1.60V   | 54.4  | 31.4 | 19.95 | 13.98 | 9.01 | 5.567 | 4.693 | 2.451 |
| 1.65V   | 53.3  | 31.2 | 19.76 | 13.87 | 8.95 | 5.510 | 4.655 | 2.442 |
| 1.70V   | 52.2  | 30.8 | 19.57 | 13.66 | 8.85 | 5.472 | 4.598 | 2.432 |
| 1.75V   | 51.8  | 30.4 | 19.00 | 13.49 | 8.74 | 5.415 | 4.560 | 2.413 |
| 1.80V   | 49.6  | 29.6 | 18.87 | 13.43 | 8.53 | 5.415 | 4.522 | 2.394 |
| 1.85V   | 45.1  | 27.6 | 17.97 | 12.65 | 8.09 | 5.168 | 4.370 | 2.356 |