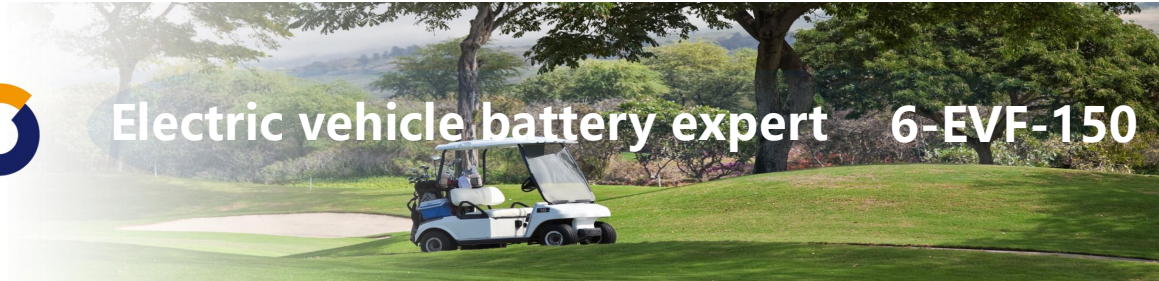




# Electric vehicle battery expert 6-EVF-150

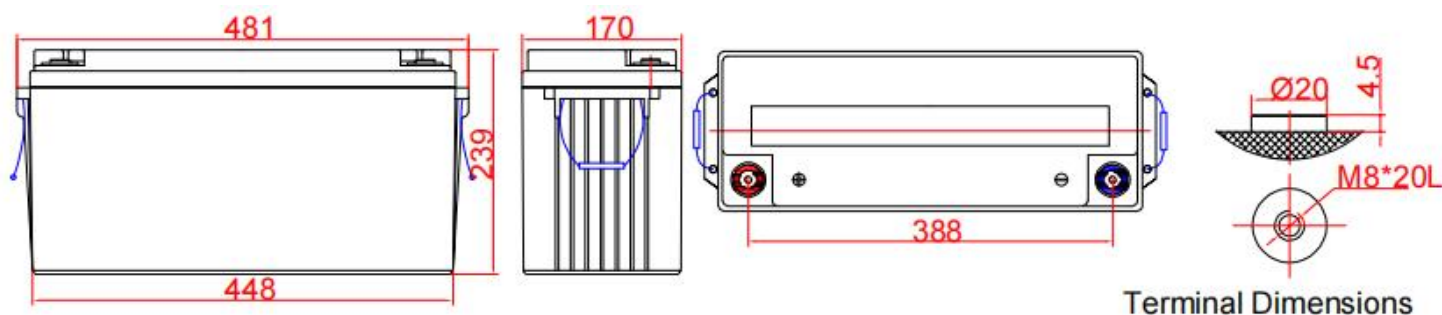


## General Features

- 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:481(L)×170(W) ×239(H)×239(TH)/(±3) Unit: mm



## Specification

|                    |                                           |
|--------------------|-------------------------------------------|
| Nominal Voltage    | 12V                                       |
| Nominal Capacity   | 150Ah@3Hour-rate to 1.75V per cell @25°C  |
| Design life        | 5 years                                   |
| Terminal           | M8                                        |
| Approx. Weight     | Approx. 50.0kg±3% (110.2lbs±3%)           |
| Container Material | ABS                                       |
| Self discharge     | 3% of capacity declined per month at 25°C |

## Rated Capacity

|                             |         |
|-----------------------------|---------|
| 20Hour Rate (9.3A to 10.5V) | 186.0Ah |
| 5Hour Rate (32.0A to 10.5V) | 160.0Ah |
| 3Hour Rate (50.0A to 10.5V) | 150.0Ah |

## 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)

|                    |                |
|--------------------|----------------|
| Max charge current | 22.5A          |
| Float Use:         | 13.7-13.9V@25  |
| Cycle Use :        | 14.7-14.9V,@25 |

## Standards

Executive standard :GB/T32620-2016

## Applications

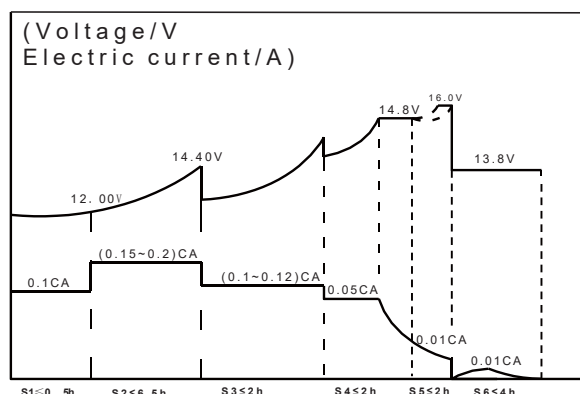
- Electric vehicle
- Electric wheelchair
- Electric scooter
- Electric play car for children
- Garbage truck
- Patrol car

## Attain Certificate

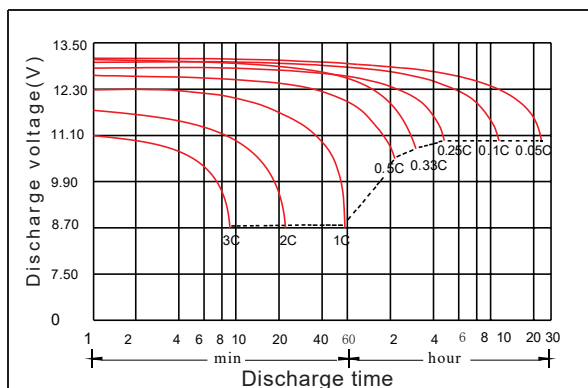


Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

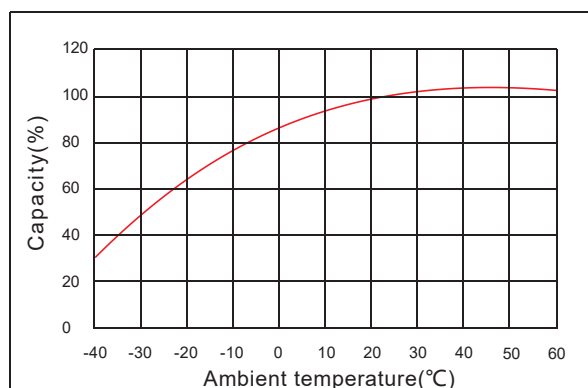
## Charging characteristic



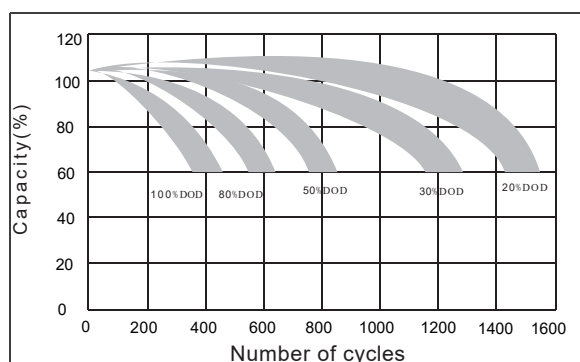
## Discharge characteristic



## 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 | 30min | 1h  | 2h   | 3h   | 5h   | 8h   | 10h  | 20h  |
|---------|-------|-----|------|------|------|------|------|------|
| 1.60V   | 226   | 130 | 72.1 | 51.9 | 33.0 | 20.8 | 17.5 | 9.43 |
| 1.65V   | 222   | 129 | 71.7 | 51.4 | 32.8 | 20.6 | 17.3 | 9.40 |
| 1.70V   | 218   | 128 | 71.0 | 50.6 | 32.4 | 20.4 | 17.2 | 9.34 |
| 1.75V   | 216   | 126 | 70.0 | 50.0 | 32.0 | 20.2 | 17.0 | 9.30 |
| 1.80V   | 207   | 123 | 68.8 | 49.8 | 31.2 | 20.2 | 16.8 | 9.26 |
| 1.85V   | 189   | 114 | 65.2 | 46.9 | 29.7 | 19.3 | 16.3 | 9.09 |

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

| FV/Time | 30min | 1h  | 2h  | 3h   | 5h   | 8h   | 10h  | 20h  |
|---------|-------|-----|-----|------|------|------|------|------|
| 1.60V   | 409   | 246 | 136 | 98.8 | 62.5 | 40.4 | 33.7 | 18.7 |
| 1.65V   | 405   | 244 | 136 | 97.5 | 62.2 | 40.0 | 33.3 | 18.6 |
| 1.70V   | 405   | 242 | 135 | 96.9 | 61.9 | 39.8 | 32.9 | 18.5 |
| 1.75V   | 403   | 240 | 134 | 96.3 | 61.5 | 39.6 | 32.7 | 18.4 |
| 1.80V   | 392   | 237 | 134 | 96.1 | 60.7 | 39.3 | 32.4 | 18.3 |
| 1.85V   | 359   | 220 | 128 | 91.4 | 58.0 | 38.0 | 31.8 | 18.2 |