



# Electric vehicle battery expert 6-EVF-106L



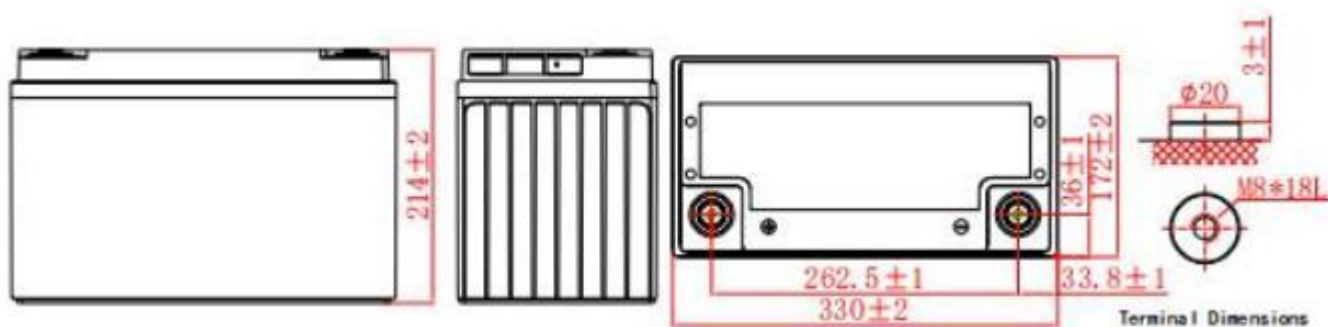
## General Features

- 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:330(L)×172(W) ×214(H)×214(TH)/(±3)

Unit: mm



## Specification

|                    |                                           |
|--------------------|-------------------------------------------|
| Nominal Voltage    | 12V                                       |
| Nominal Capacity   | 106Ah@3Hour-rate to 1.75V per cell @25°C  |
| Design life        | 5 years                                   |
| Terminal           | M8                                        |
| Approx. Weight     | Approx. 32.2kg±3% (70.99lbs±3%)           |
| Container Material | ABS                                       |
| Self discharge     | 3% of capacity declined per month at 25°C |

## Rated Capacity

|                              |         |
|------------------------------|---------|
| 20Hour Rate (6.40A to 10.5V) | 128.0Ah |
| 5Hour Rate (22.0A to 10.5V)  | 110.0Ah |
| 3Hour Rate (35.4A to 10.5V)  | 106.0Ah |

## 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 | 15.9A          |
| 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



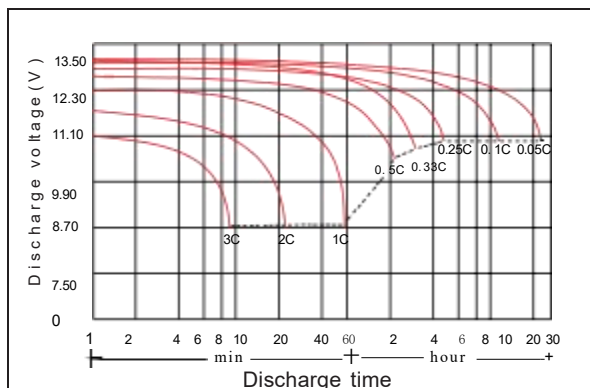
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.



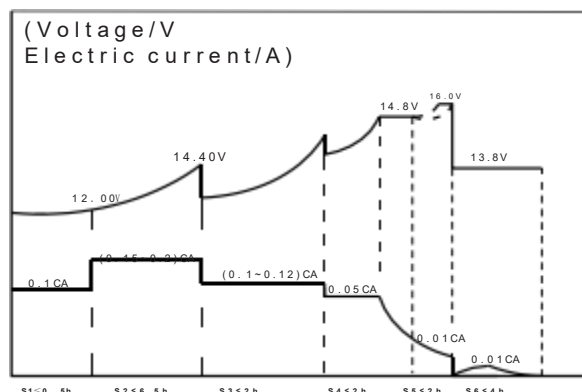
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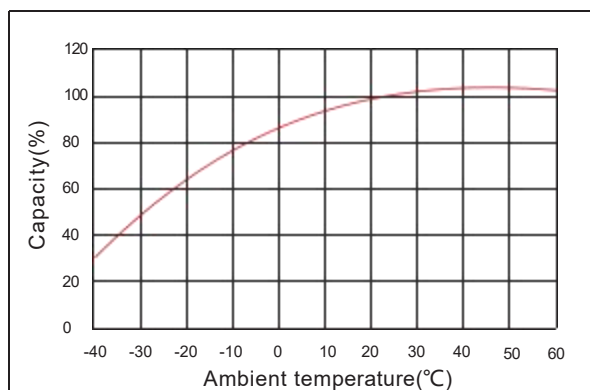
## Discharge characteristic



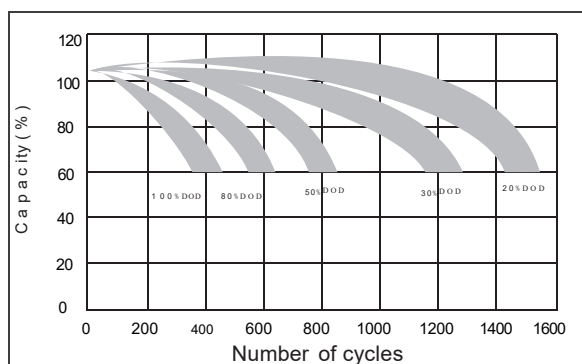
## Charging characteristic



## 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 | 30min | 1h   | 2h   | 3h   | 5h   | 8h   | 10h  | 20h  |
|---------|-------|------|------|------|------|------|------|------|
| 1.60V   | 157   | 87.5 | 48.8 | 36.6 | 22.7 | 14.4 | 12.2 | 6.63 |
| 1.65V   | 154   | 86.9 | 48.5 | 36.3 | 22.5 | 14.3 | 12.0 | 6.59 |
| 1.70V   | 151   | 86.3 | 48.1 | 35.7 | 22.3 | 14.1 | 11.9 | 6.54 |
| 1.75V   | 150   | 85.0 | 47.4 | 35.4 | 22.0 | 14.0 | 11.8 | 6.40 |
| 1.80V   | 143   | 82.8 | 46.6 | 35.2 | 21.5 | 14.0 | 11.7 | 6.36 |
| 1.85V   | 131   | 76.8 | 44.2 | 33.1 | 20.4 | 13.4 | 11.3 | 6.27 |

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

| FV/Time | 30min | 1h  | 2h   | 3h   | 5h   | 8h   | 10h  | 20h  |
|---------|-------|-----|------|------|------|------|------|------|
| 1.60V   | 284   | 166 | 92.1 | 69.7 | 43.1 | 28.0 | 23.4 | 13.2 |
| 1.65V   | 281   | 165 | 91.9 | 68.9 | 42.8 | 27.8 | 23.1 | 13.1 |
| 1.70V   | 281   | 163 | 91.6 | 68.4 | 42.5 | 27.7 | 22.8 | 13.0 |
| 1.75V   | 280   | 162 | 91.0 | 68.0 | 42.3 | 27.5 | 22.7 | 12.9 |
| 1.80V   | 272   | 160 | 90.7 | 67.8 | 41.7 | 27.3 | 22.5 | 12.8 |
| 1.85V   | 249   | 149 | 86.7 | 64.5 | 39.8 | 26.4 | 22.1 | 12.7 |