

6-EVF-61

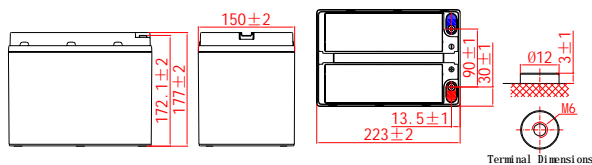


General Features

- 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: 223(L)×150(W)×177(H)×177(TH) Unit: mm



Applications

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

Specification

Nominal Voltage	12V
Nominal Capacity	61Ah
Design life	5 years
Terminal	M6
Approx. Weight	Approx 16.4kg (36.1lbs)
Container Material	ABS
Rated Capacity	76.0Ah 20Hour Rate (3.80A to 10.5V) 61.0Ah 3Hour Rate (20.4A to 10.5V) 50.0Ah 1Hour Rate (50.0A to 10.5V)
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)	Float Use:13.7-13.9V@25 Cycle Use :14.7-14.9V,@25 Max charge current 9.1A
Self discharge	3% of capacity declined per month at 25°C

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

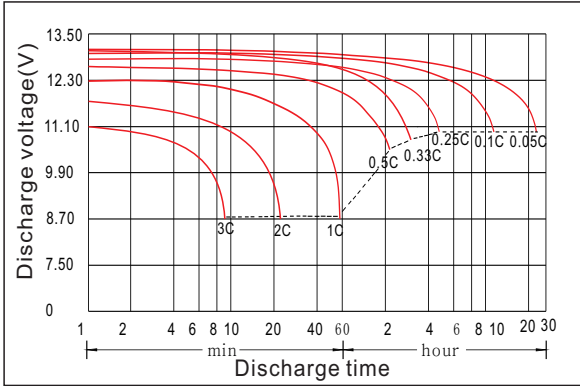
FV/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	79.7	51.4	30.4	21.0	13.6	8.79	7.41	3.85
1.65V	78.1	51.1	30.3	20.9	13.5	8.71	7.34	3.84
1.70V	76.6	50.8	29.9	20.5	13.4	8.63	7.27	3.82
1.75V	76.0	50.0	29.5	20.4	13.2	8.56	7.20	3.80
1.80V	72.7	48.7	29.0	20.2	12.9	8.56	7.13	3.78
1.85V	66.4	45.2	27.5	19.1	12.2	8.16	6.92	3.71

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

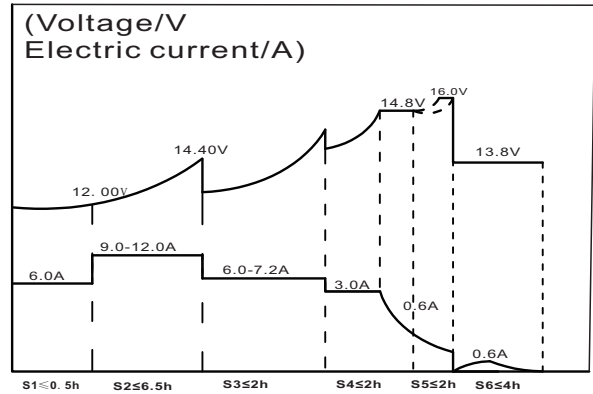
FV/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	144	97.6	57.4	40.2	25.8	17.1	14.3	7.63
1.65V	142	96.8	57.2	39.6	25.7	16.9	14.1	7.60
1.70V	142	96.0	57.0	39.4	25.5	16.8	13.9	7.56
1.75V	141	95.1	56.6	39.1	25.4	16.8	13.9	7.53
1.80V	138	94.2	56.4	39.0	25.1	16.6	13.7	7.49
1.85V	127	87.5	54.0	37.1	23.9	16.1	13.5	7.42

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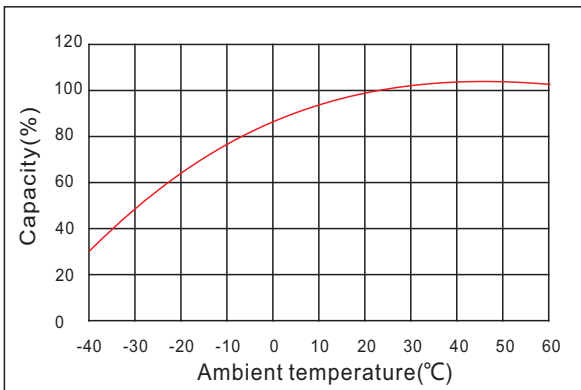
Discharge characteristic



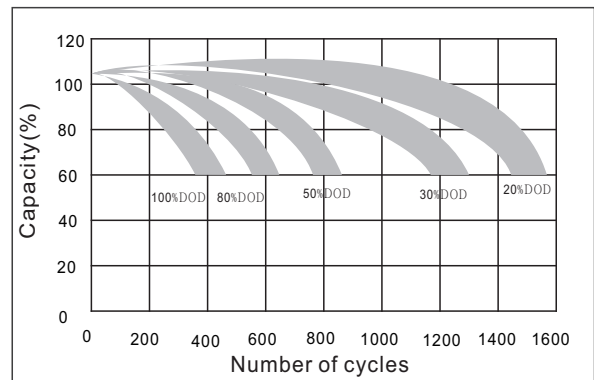
Charging characteristic



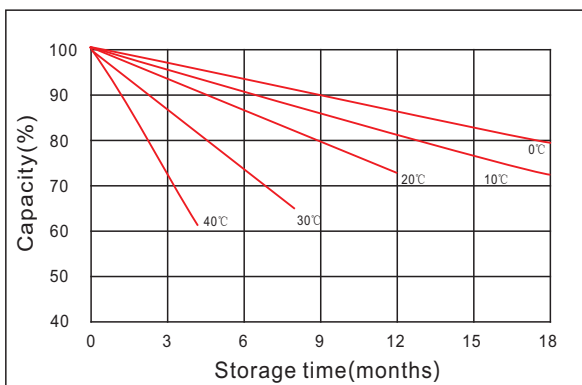
The effect of temperature on capacity



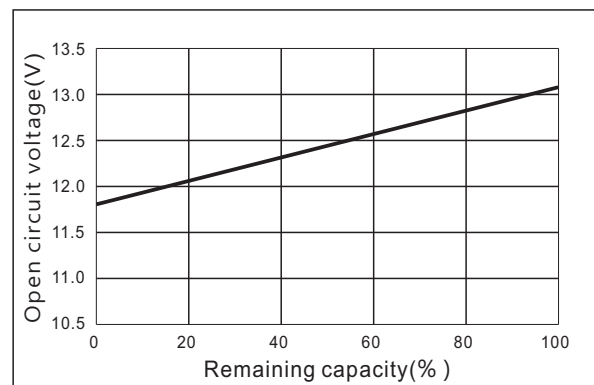
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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