

## 6-EVF-75

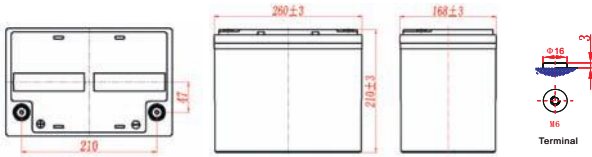


### General Features

- › 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: 260(L)×168(W)×210(H)×210(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	75Ah
Design life	5 years
Terminal	M6
Approx. Weight	Approx.25.2kg (55.6lbs)
Container Material	ABS
Rated Capacity	<b>87.1Ah</b> 10Hour Rate (8.71A to 10.5V) <b>75.0Ah</b> 3Hour Rate (25.0A to 10.5V) <b>59.3Ah</b> 1Hour Rate (59.3A 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°C Cycle Use :14.7-14.9V,@25°C Max charge current 11.25A
Self discharge	3% of capacity declined per month at 25°C

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

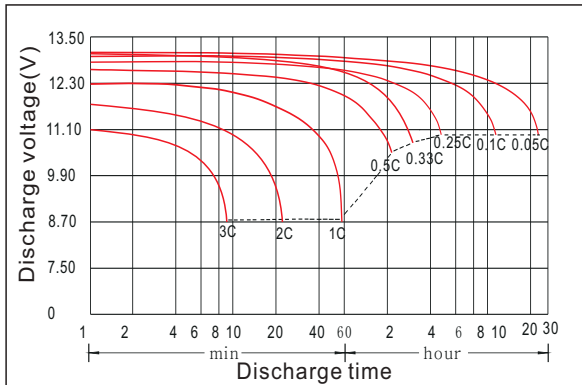
F.V/Time	5Min	15Min	30Min	1h	2h	3h	5h	8h	10h	20h
1.60V	319	171	104	61.0	35.0	25.9	17.0	10.9	8.98	4.71
1.65V	310	166	103	60.6	34.8	25.6	16.9	10.8	8.89	4.69
1.70V	298	163	101	60.1	34.5	25.3	16.6	10.7	8.80	4.66
1.75V	274	158	100	59.3	34.0	25.0	16.5	10.7	8.71	4.64
1.80V	245	146	95.5	57.8	33.4	24.9	16.1	10.6	8.63	4.61
1.85V	219	131	87.1	53.5	31.6	23.4	15.3	10.1	8.36	4.54

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

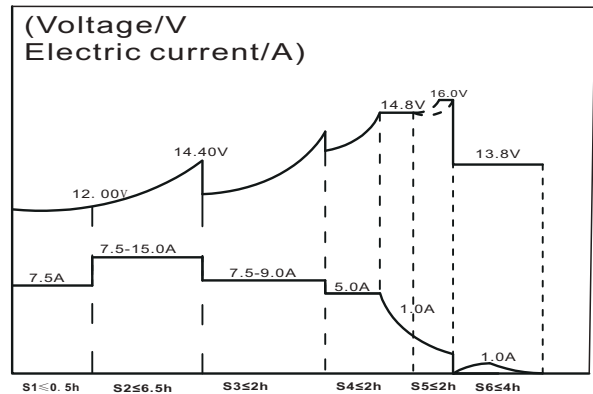
F.V/Time	5Min	15Min	30Min	1h	2h	3h	5h	8h	10h	20h
1.60V	535	303	189	115	66.1	49.3	32.3	21.3	17.3	9.31
1.65V	515	296	188	114	66.0	48.6	32.1	21.0	17.1	9.28
1.70V	513	294	188	114	65.6	48.4	31.9	21.0	16.9	9.23
1.75V	478	291	186	113	65.4	48.1	31.6	20.8	16.8	9.19
1.80V	439	275	181	112	65.1	47.9	31.4	20.6	16.5	9.14
1.85V	391	246	166	104	62.3	45.6	29.9	19.9	16.3	9.06

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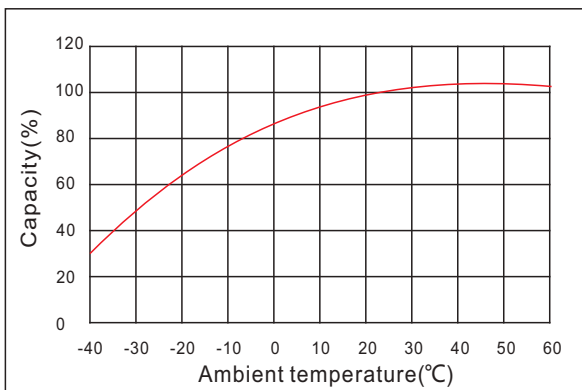
## Discharge characteristic



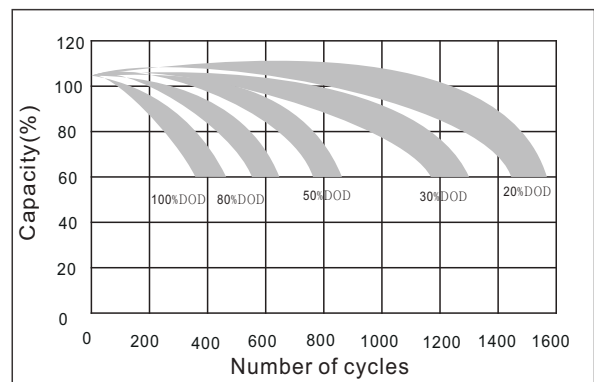
## Charging characteristic



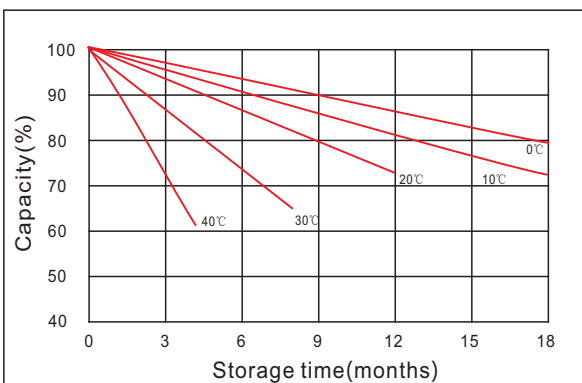
## The effect of temperature on capacity



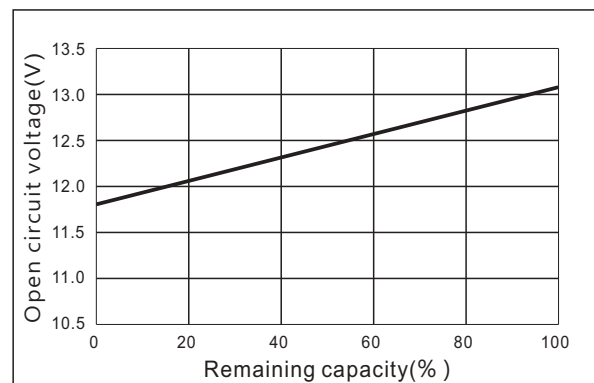
## The effect of discharge depth on cycle life



## Curves of self-discharge



## Curves of open circuit voltage vs. capacity



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