

## 6-EVF-35



### Applications

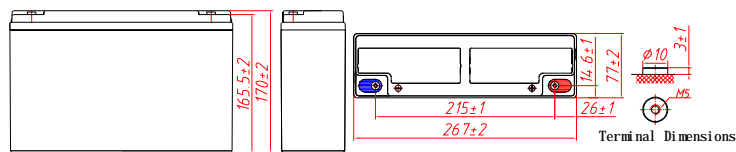
- › Electric vehicle
- › Electric wheelchair
- › Electric scooter
- › Electric play car for children
- › Garbage truck
- › Patrol car

### 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: 267(L)×77(W)×170(H)×170(TH) Unit: mm



### Specification

Nominal Voltage	12V
Nominal Capacity	35Ah
Design life	5 years
Terminal	M5
Approx. Weight	Approx9.55kg (21.1lbs)
Container Material	ABS
Rated Capacity	<b>37.0Ah</b> 10Hour Rate (3.70A to 10.5V) <b>35.0Ah</b> 3Hour Rate (11.7A to 10.5V) <b>28.0Ah</b> 1Hour Rate (28.0A 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°C Cycle Use :14.7-14.9V,@25°C Max charge current 5.25A
Self discharge	3% of capacity declined per month at 25°C

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

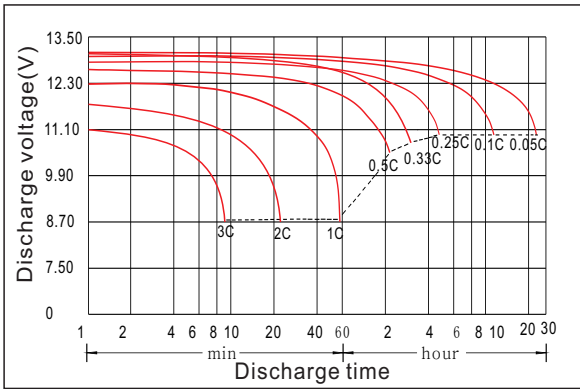
FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	148	79.6	50.3	28.8	16.5	12.0	7.42	4.52	3.81	2.13
1.65V	144	77.2	49.4	28.6	16.4	11.9	7.38	4.48	3.77	2.12
1.70V	138	75.8	48.4	28.4	16.2	11.7	7.29	4.44	3.74	2.11
1.75V	127	73.0	48.0	28.0	16.0	11.7	7.20	4.40	3.70	2.10
1.80V	114	68.3	45.9	27.3	15.7	11.6	7.02	4.40	3.66	2.09
1.85V	102	60.8	41.9	25.3	14.9	10.9	6.67	4.19	3.55	2.05

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

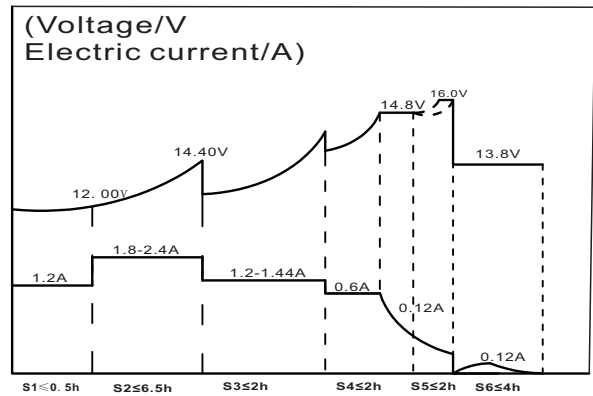
FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	249	140	91.0	54.7	31.1	22.9	14.1	8.79	7.33	4.22
1.65V	239	138	90.0	54.2	31.0	22.6	14.0	8.71	7.25	4.20
1.70V	238	136	90.0	53.7	30.9	22.5	13.9	8.67	7.16	4.18
1.75V	222	136	89.5	53.2	30.7	22.3	13.8	8.63	7.12	4.16
1.80V	204	128	87.1	52.8	30.6	22.3	13.7	8.55	7.04	4.14
1.85V	182	115	79.8	49.0	29.3	21.2	13.0	8.26	6.92	4.10

# 6-EVF-35

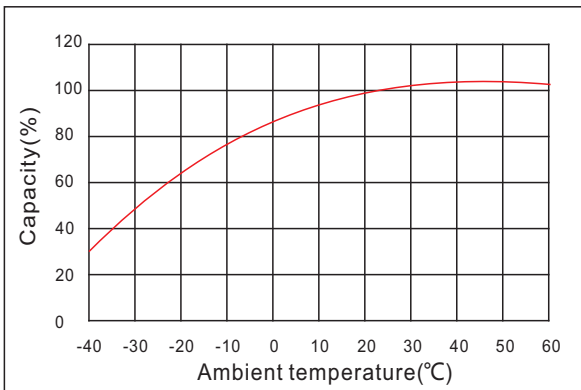
## Discharge characteristic



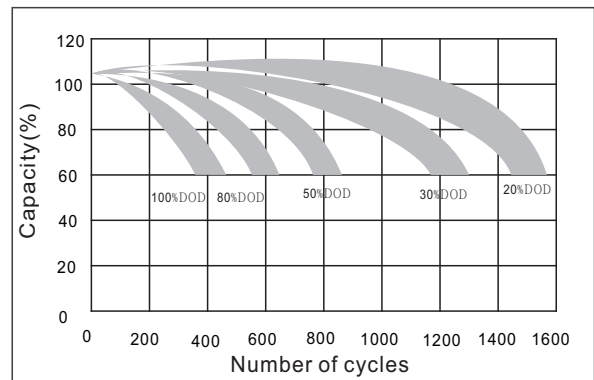
## Charging characteristic



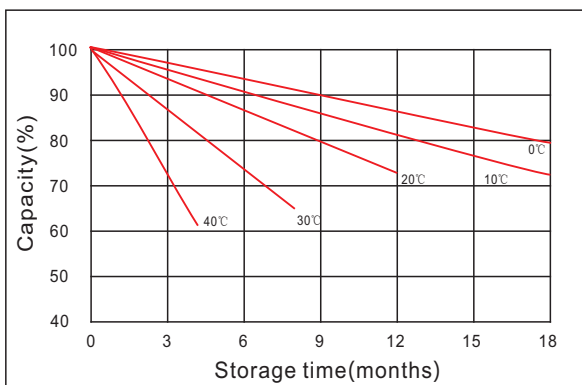
## The effect of temperature on capacity



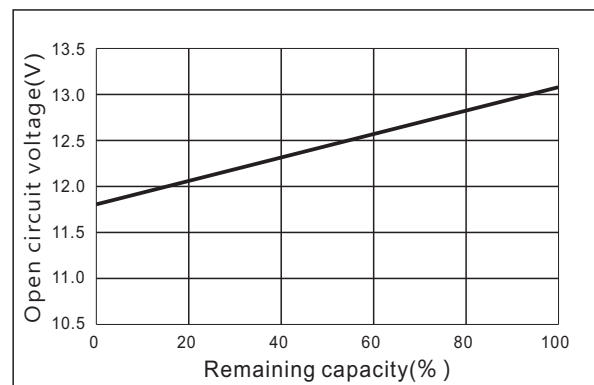
## The effect of discharge depth on cycle life



## Curves of self-discharge



## Curves of open circuit voltage vs. capacity



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