

## 6-EVF-90

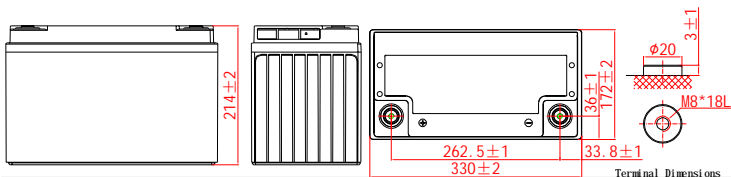


### General Features

- 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: 330(L)×172(W)×214(H)×214(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	90Ah
Design life	5 years
Terminal	M8
Approx. Weight	Approx 30.0kg (66.1lbs)
Container Material	ABS
Rated Capacity	<b>116.0Ah</b> 20Hour Rate (5.80A to 10.5V) <b>90.0Ah</b> 3Hour Rate (30.0A to 10.5V) <b>76.0Ah</b> 1Hour Rate (76.0A 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 13.5A
Self discharge	3% of capacity declined per month at 25°C

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

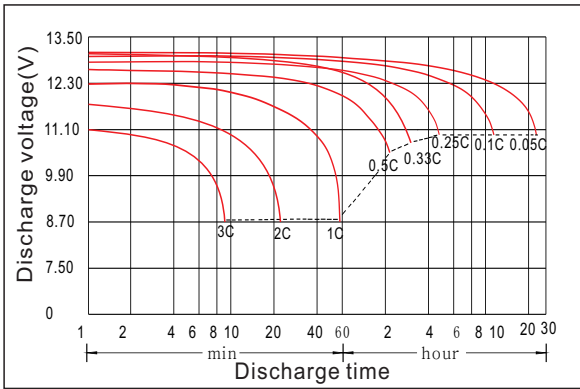
FV/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	136	78.2	42.2	31.1	19.6	13.4	11.3	5.88
1.65V	134	77.7	42.0	30.9	19.5	13.3	11.2	5.86
1.70V	131	77.2	41.6	30.4	19.2	13.2	11.1	5.82
1.75V	130	76.0	41.0	30.0	19.0	13.1	11.0	5.80
1.80V	124	74.1	40.3	29.9	18.5	13.1	10.9	5.78
1.85V	113	68.6	38.2	28.1	17.6	12.5	10.6	5.67

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

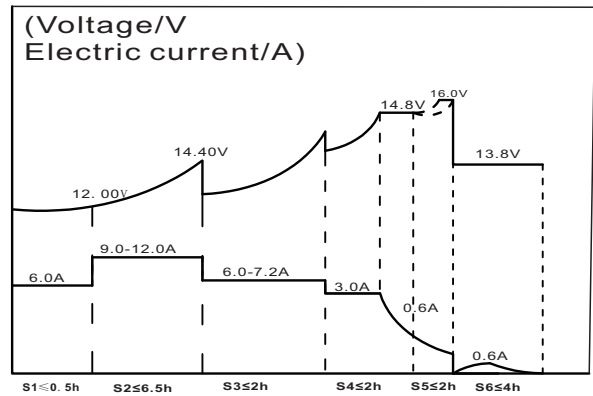
FV/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	246	148	79.7	59.3	37.2	26.1	21.8	11.6
1.65V	244	147	79.5	58.5	37.0	25.9	21.5	11.6
1.70V	244	146	79.2	58.1	36.7	25.8	21.3	11.5
1.75V	242	145	78.7	57.8	36.5	25.7	21.2	11.5
1.80V	236	143	78.5	57.7	36.0	25.4	20.9	11.4
1.85V	216	133	75.0	54.8	34.4	24.6	20.6	11.3

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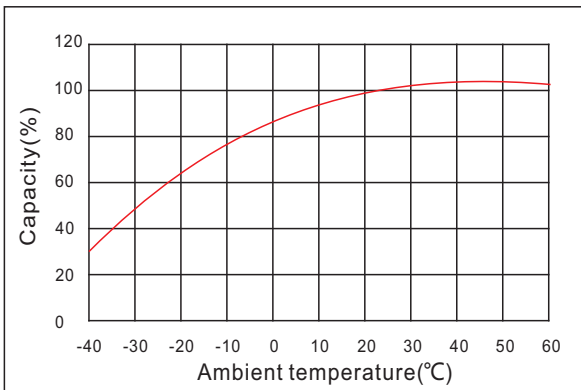
## Discharge characteristic



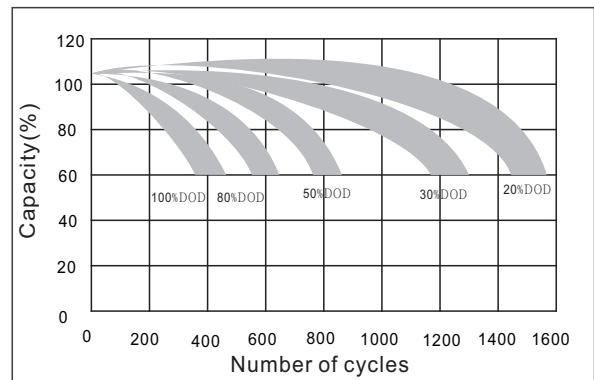
## Charging characteristic



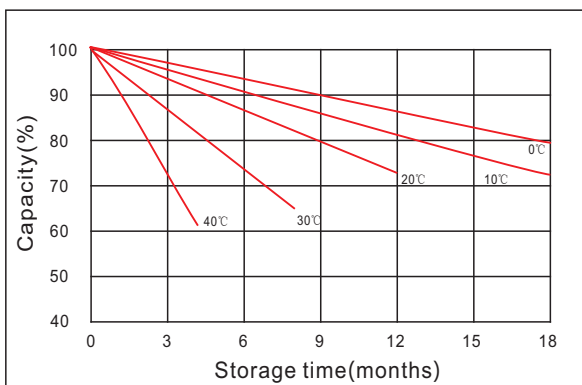
## The effect of temperature on capacity



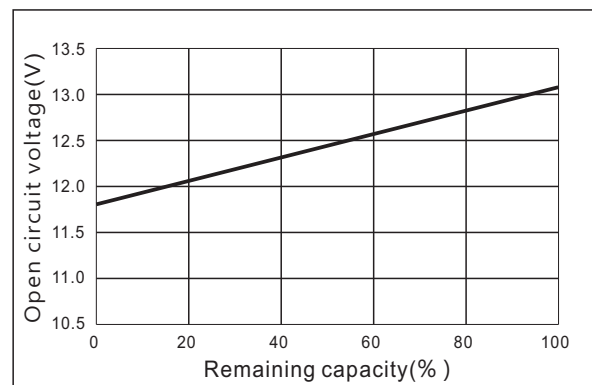
## The effect of discharge depth on cycle life



## Curves of self-discharge



## Curves of open circuit voltage vs. capacity



[www.kiju.com.cn](http://www.kiju.com.cn)    [info@kiju.com.cn](mailto:info@kiju.com.cn)

**Jiangxi Jingjiu Power Science&Technology Co. Ltd.**  
Add: 1388 Fushan No.1 Street, Xiaolan Economic Development Zone, Nanchang City, Jiangxi Province, China.

+86-791-85982779    +86-791-85989842

**Jiangxi Jingjiu Power ( Jiujiang ) Co. Ltd.**  
Add: Xiwang Rd, Aicheng Industrial Park, Yongxiu Country, Jiujiang City, Jiangxi Province, China.

