

6-EVF-72

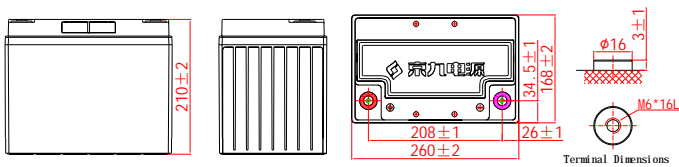


General Features

- 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	72Ah
Design life	5 years
Terminal	M6
Approx. Weight	Approx 24.0kg (52.9lbs)
Container Material	ABS
Rated Capacity	90.0Ah 20Hour Rate (4.50A to 10.5V) 72.0Ah 3Hour Rate (24.0A to 10.5V) 60.0Ah 1Hour Rate (60.0A 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 10.8A
Self discharge	3% of capacity declined per month at 25°C

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

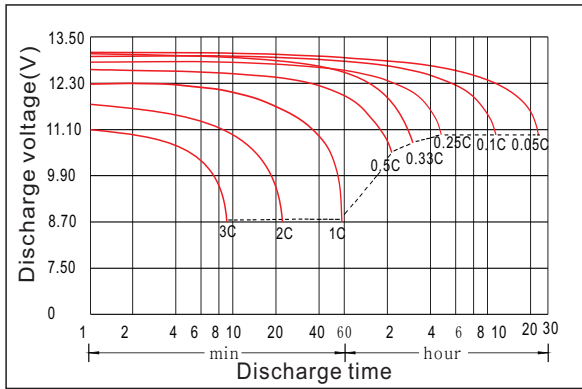
FV/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	101	61.7	33.5	24.9	16.5	10.4	8.75	4.57
1.65V	98.7	61.3	33.3	24.7	16.4	10.3	8.67	4.55
1.70V	96.8	60.9	33.0	24.3	16.2	10.2	8.58	4.52
1.75V	96.0	60.0	32.5	24.0	16.0	10.1	8.50	4.50
1.80V	91.8	58.5	31.9	23.9	15.6	10.1	8.42	4.48
1.85V	83.8	54.2	30.3	22.5	14.8	9.63	8.16	4.40

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

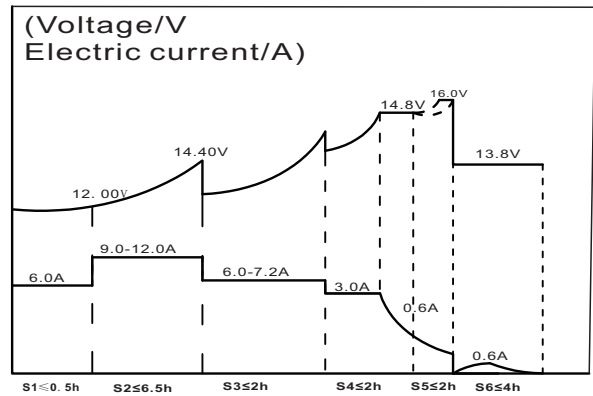
FV/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	182	117	63.2	47.3	31.3	20.2	16.8	9.04
1.65V	180	116	63.0	46.8	31.1	20.0	16.6	9.00
1.70V	180	115	62.8	46.5	30.9	19.9	16.5	8.95
1.75V	179	114	62.4	46.2	30.7	19.8	16.4	8.92
1.80V	174	113	62.2	46.1	30.3	19.6	16.2	8.87
1.85V	160	105	59.4	43.9	29.0	19.0	15.9	8.79

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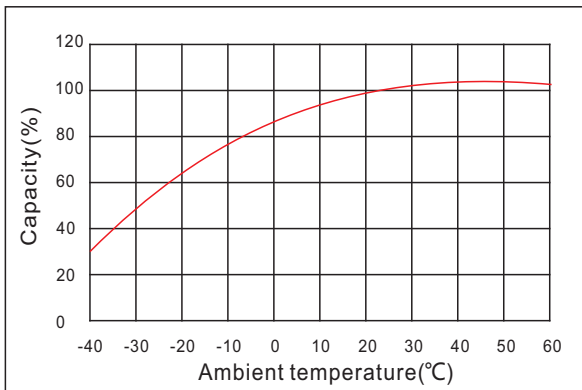
Discharge characteristic



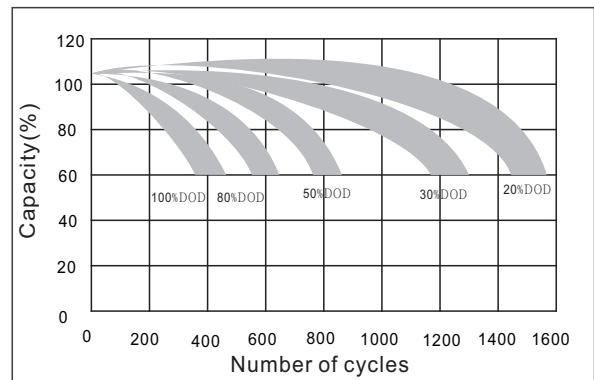
Charging characteristic



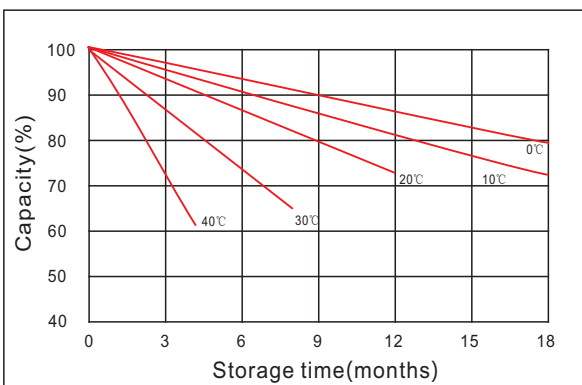
The effect of temperature on capacity



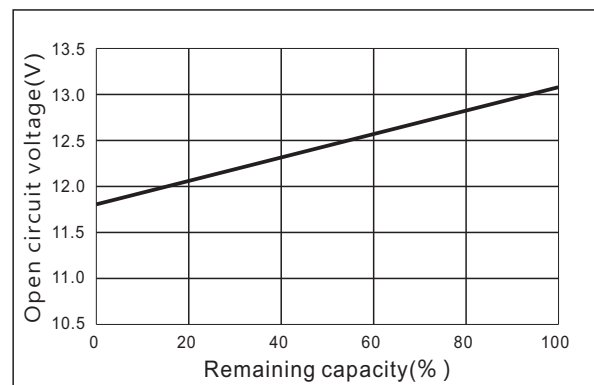
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



www.kiju.com.cn info@kiju.com.cn

+86-791-85982779 +86-791-85989842

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

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

