

JM12-135

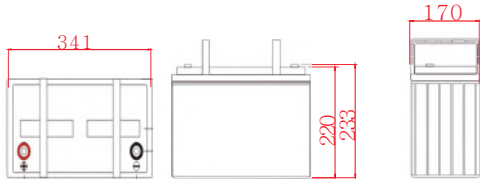


General Features

- > High corrosion resistant performance: Pb-Ca multi-alloy grid
- > High energy density and power density
- > Optimized capability of instant high-current discharging
- > Excellent charge acceptance ability
- > Excellent deep cycle discharge capability
- > Strong high and low temperature performance
- > Precision sealing technology
- > Long life



Dimension: 341(L) × 172(W) × 281(H) × 286(TH) Unit: mm



Terminal Dimensions

Applications

- > UPS/EPS
- > Power systems
- > Telecommunications system
- > Emergency lighting, Auto control system
- > Solar/wind generating storage cyclic
- > Other general purpose

Specification

Nominal Voltage	12V
Nominal Capacity	135Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 41.5kg (91.5lbs)
Container Material	ABS
Rated Capacity	135Ah → 10Hour Rate (13.5A to 10.8V)
	109Ah → 3Hour Rate (36.3A to 10.8V)
	88.4Ah → 1Hour Rate (88.4A to 10.5V)
Internal resistance	Full charged at 25°C: 4.0 mΩ
Max. Discharge Current	1440A(5S)
Operating Temperature	Discharge: -20 ~50°C (-4 ~ 122°F)
	Charge: -20 ~50°C (-4 ~ 122°F)
	Storage: -20 ~50°C (-4 ~ 122°F)
Charge current:	Max. 35A ; Recom. 13.5A
Charge Method (25°C)	Float Charge: 13.5-13.8V, recom. 13.5V (-18mV/°C)
	Equalize charge: 13.8-14.1V, recom. 14.1V (-24mV/°C)
	Cycle charge: 14.4-15.0V, recom. 14.4V (-30mV/°C)
Self discharge	3% of capacity declined per month at 25°C

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

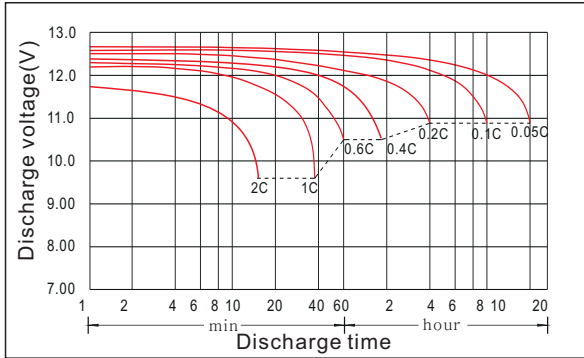
FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	476	256	155	90.9	52.1	37.8	25.4	16.7	14.04	7.37
1.65V	461	248	153	90.4	51.9	37.4	25.1	16.5	13.91	7.33
1.70V	443	243	150	89.7	51.5	36.9	24.9	16.4	13.77	7.29
1.75V	407	235	148.8	88.4	50.7	36.5	24.6	16.3	13.64	7.26
1.80V	365	219	142.4	86.1	49.7	36.3	23.9	16.1	13.50	7.22
1.85V	325	195	129.9	79.8	47.2	34.1	22.8	15.5	13.10	7.10

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

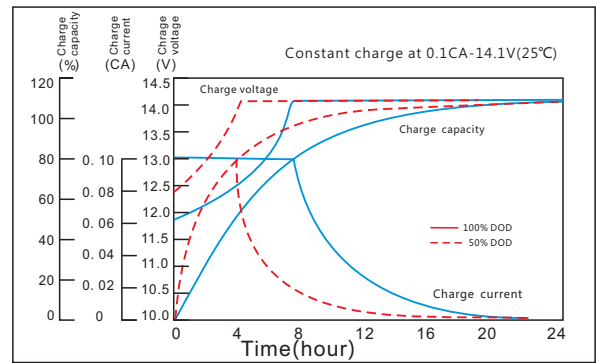
FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	798	450	281	172	98.6	72.0	48.2	32.4	27.0	14.6
1.65V	767	442	279	171	98.3	71.0	47.9	32.1	26.7	14.5
1.70V	763	437	279	169	97.9	70.6	47.5	32.0	26.5	14.4
1.75V	712	434	277	168	97.4	70.3	47.2	31.7	26.2	14.4
1.80V	654	411	271	167	97.1	70.0	46.7	31.5	25.9	14.3
1.85V	584	367	248	155	92.7	66.5	44.6	30.4	25.5	14.2

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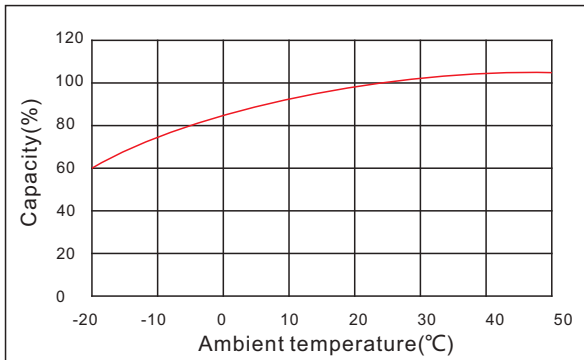
Discharge characteristic



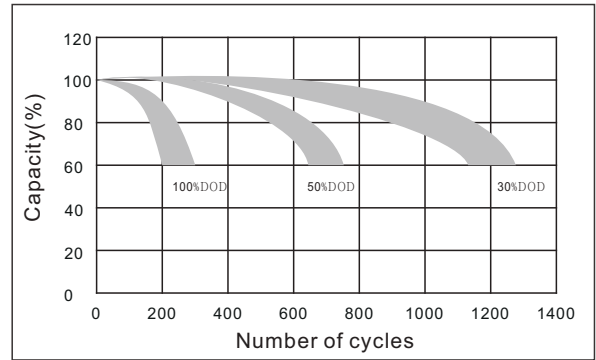
Charging characteristic



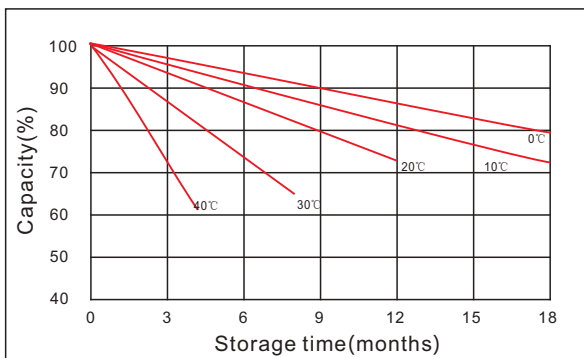
The effect of temperature on capacity



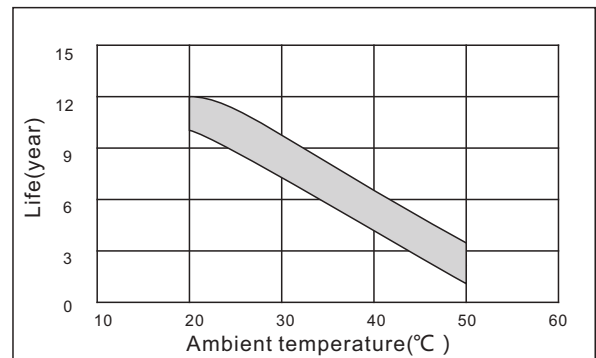
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



www.kijo.com.cn info@kijo.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.

