

JM12-100

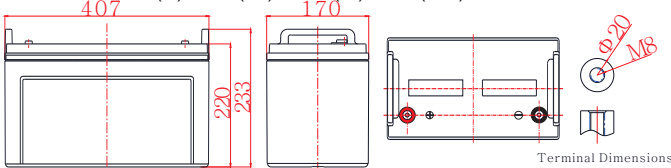


General Features

- > 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: 407(L) × 170(W) × 220(H) × 223(TH) Unit: mm



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	120Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 32.5kg (71.7lbs)
Container Material	ABS
Rated Capacity	100Ah → 10Hour Rate (10.0A to 10.8V)
	81.0Ah → 3Hour Rate (27.0A to 10.8V)
	65.8Ah → 1Hour Rate (65.8A to 10.5V)
Internal resistance	Full charged at 25°C: 5.0 mΩ
Max. Discharge Current	1200A(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. 25A ; Recom. 10A
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)

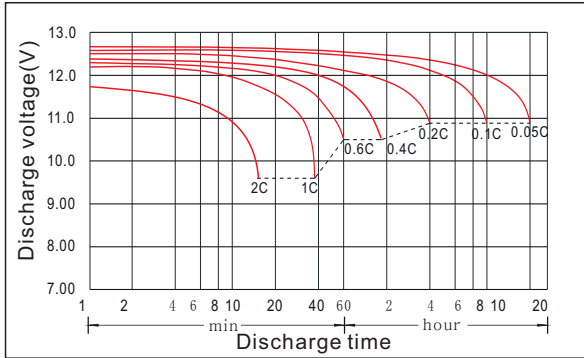
FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	354	190	116	67.7	38.8	28.2	18.9	12.4	10.5	5.49
1.65V	343	184	114	67.3	38.6	27.9	18.7	12.3	10.4	5.46
1.70V	330	181	112	66.8	38.3	27.5	18.5	12.2	10.3	5.43
1.75V	303	175	111	65.8	37.7	27.2	18.3	12.1	10.2	5.41
1.80V	272	163	106	64.1	37.0	27.0	17.8	12.0	10.0	5.38
1.85V	242	145	96.7	59.4	35.2	25.4	16.9	11.5	9.75	5.29

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

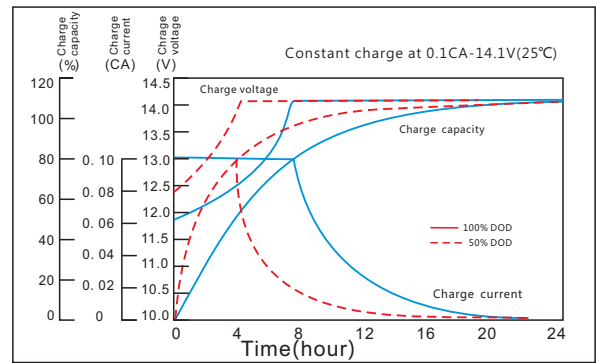
FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	594	335	209	128	73.4	53.6	35.9	24.1	20.1	10.9
1.65V	571	329	207	127	73.2	52.9	35.7	23.9	19.9	10.8
1.70V	568	325	207	126	72.9	52.6	35.4	23.8	19.7	10.8
1.75V	530	323	206	125	72.5	52.3	35.2	23.6	19.5	10.7
1.80V	487	306	202	124	72.3	52.1	34.8	23.4	19.3	10.7
1.85V	434	273	185	115	69.0	49.5	33.2	22.6	19.0	10.6

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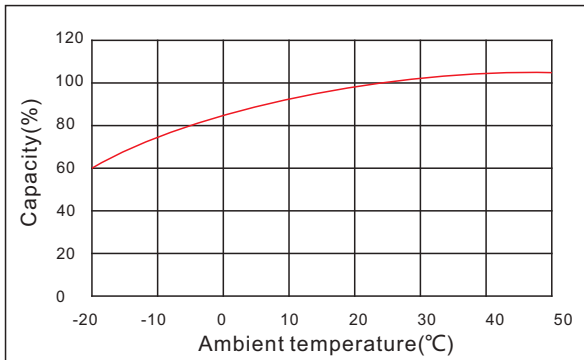
Discharge characteristic



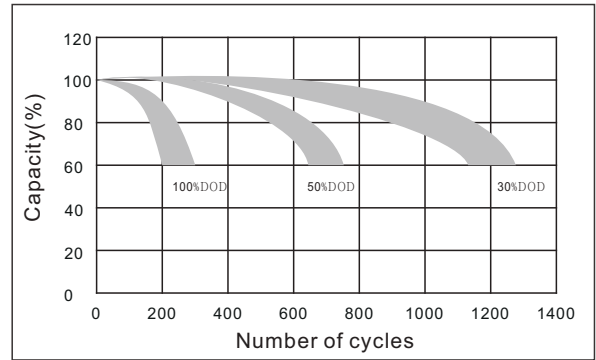
Charging characteristic



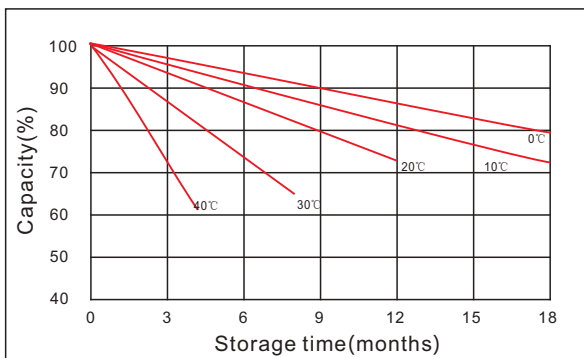
The effect of temperature on capacity



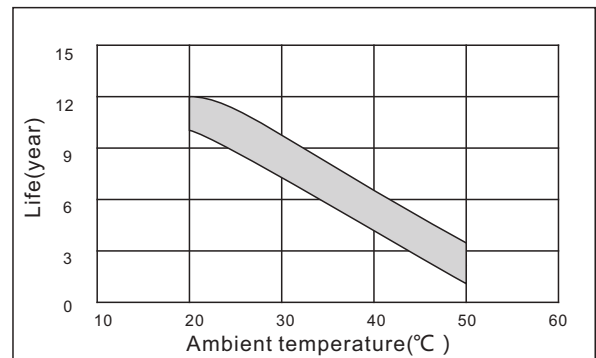
The effect of discharge depth on cycle life



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.

