

## JPC12-120



### Applications

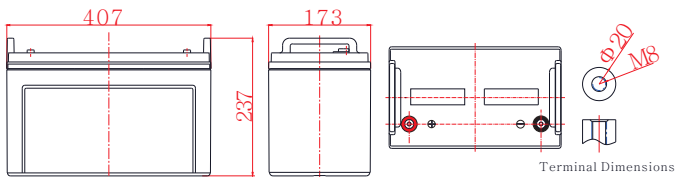
- > Solar/ wind energy and other new energy storage
- > Hybrid vehicles, electric bicycles and other new energy vehicles
- > Other backup or cycle purposes

### General Features

- > Lead-carbon composite negative plate, both capacitance and battery characteristics
- > Long cycle life, excellent deep cycle discharge ability
- > Excellent charge acceptance ability
- > Optimized capability of instant high-current discharging
- > Strong high and low temperature performance
- > Precision sealing technology



Dimension: 407(L)×173(W)×237(H)×237(TH) Unit: mm



### Specification

Nominal Voltage	12V
Nominal Capacity	120Ah
Design life	15 years
Terminal	M8
Approx. Weight	Approx 37.2kg (82.1lbs)
Container Material	ABS
Rated Capacity	<b>120Ah</b> 10Hour Rate (12.0A to 10.8V)
	<b>97.5Ah</b> 3Hour Rate (32.5A to 10.8V)
	<b>79.3Ah</b> 1Hour Rate (79.3A to 10.5V)
Internal resistance	Full charged at 25°C: 4.10 mΩ
Max. Discharge Current	1440A(5S)
Operating Temperature	Discharge: -20 ~60°C (-4 ~ 140°F)
	Charge: -20 ~50°C (-4 ~ 122°F)
	Storage: -20 ~50°C (-4 ~ 122°F)
Charge current: Max. 36.0A ; Recom. 12.0~24.0A	
Charge Method (25 °C)	Float Charge: 13.5-13.8V, recom. 13.8V (-18mV/ °C)
	Equalize charge: 13.8-14.1V, recom. 14.1V (-24mV/ °C)
	Cycle charge: 14.4-15.0V, recom. 14.7V (-30mV/ °C)
Self discharge	3% of capacity declined per month at 25°C

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

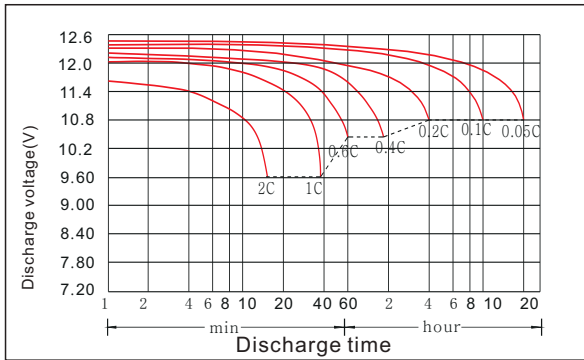
FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	431	232	140	81.6	46.8	34.0	22.8	15.0	12.6	6.61
1.65V	418	224	138	81.1	46.6	33.6	22.6	14.9	12.5	6.58
1.70V	402	220	136	80.5	46.2	33.1	22.3	14.8	12.4	6.54
1.75V	370	212	134	79.3	45.5	32.8	22.1	14.6	12.2	6.52
1.80V	331	198	130	77.3	44.6	32.5	21.5	14.5	12.0	6.48
1.85V	295	176	118	71.6	42.4	30.6	20.4	13.9	11.8	6.37

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

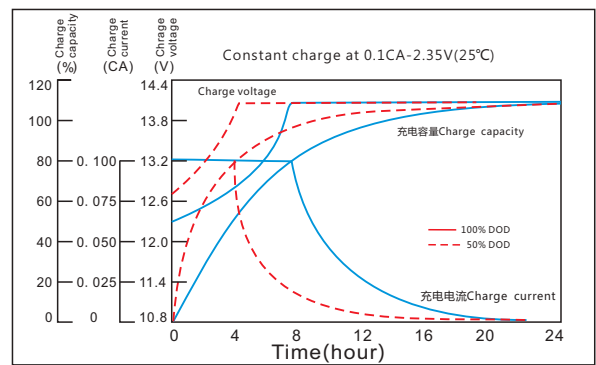
FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	724	408	256	155	88.4	64.6	43.2	29.0	24.2	13.1
1.65V	696	401	253	154	88.2	63.8	43.0	28.8	24.0	13.1
1.70V	692	396	253	152	87.8	63.5	42.6	28.7	23.8	13.0
1.75V	646	394	252	151	87.4	63.1	42.4	28.4	23.5	13.0
1.80V	593	372	246	150	87.2	62.9	41.9	28.2	23.3	12.8
1.85V	529	332	226	139	83.3	59.8	40.1	27.4	22.9	12.7

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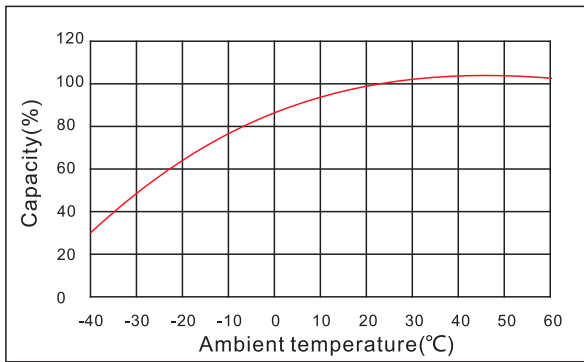
Discharge characteristic



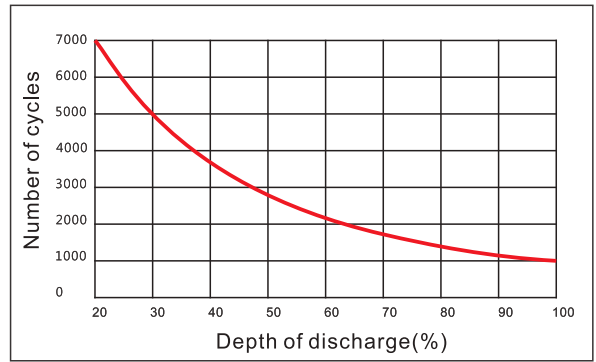
Charging characteristic



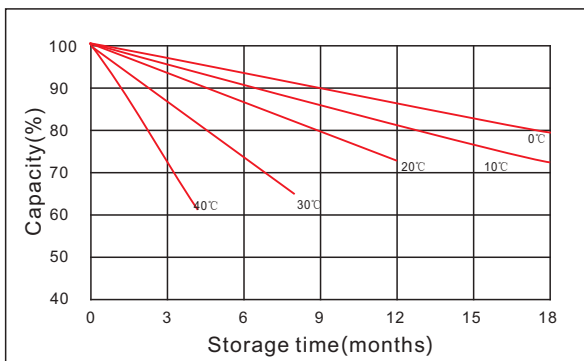
The effect of temperature on capacity



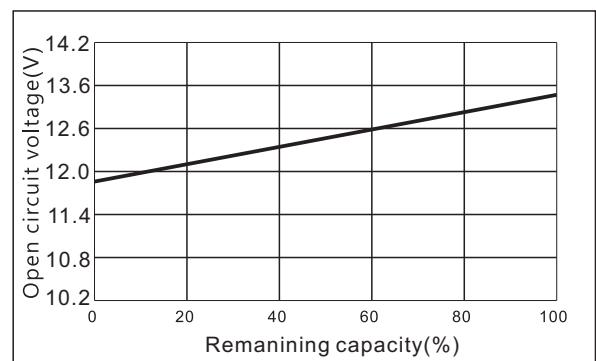
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of discharge depth on cycle life



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

