

JPC12-100

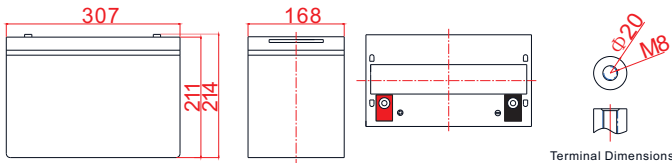


General Features

- 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: 307(L) × 168(W) × 211(H) × 214(TH) Unit: mm



Applications

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

Specification

Nominal Voltage	12V
Nominal Capacity	100Ah
Design life	15 years
Terminal	M8
Approx. Weight	Approx 28.5kg (62.9lbs)
Container Material	ABS
Rated Capacity	100Ah → 20Hour Rate (5.00A to 10.8V)
	81.3Ah → 3Hour Rate (27.1A to 10.8V)
	66.1Ah → 1Hour Rate (66.1A to 10.5V)
Internal resistance	Full charged at 25°C: 5.00 mΩ
Max. Discharge Current	1200A(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. 30.0A ; Recom. 10.0~20.0A
Charge Method (25 °C)	Standby Use: Initial Charging Current Less than 30A Voltage 13.6-13.8V
	Cycle Use : Initial Charging Current Less than 30A Voltage 14.4-14.9V
Self discharge	3% of capacity declined per month at 25°C

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

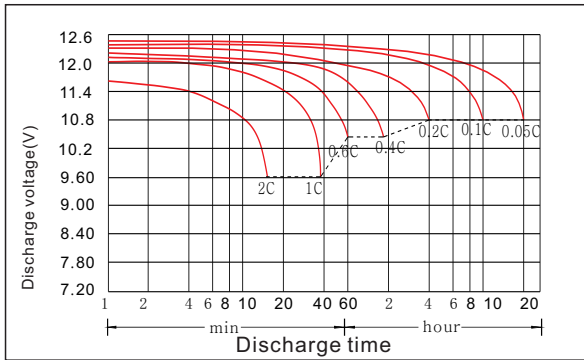
FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	352	189	115	67.3	38.6	28.0	18.8	12.4	10.4	5.46
1.65V	342	184	113	66.9	38.4	27.7	18.6	12.3	10.3	5.43
1.70V	328	180	111	66.4	38.1	27.3	18.4	12.2	10.2	5.40
1.75V	302	174	110	65.5	37.5	27.0	18.2	12.1	10.1	5.38
1.80V	270	162	105	63.8	36.8	26.9	17.7	12.0	10.0	5.35
1.85V	241	144	96.2	59.1	35.0	25.3	16.9	11.5	9.70	5.26

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

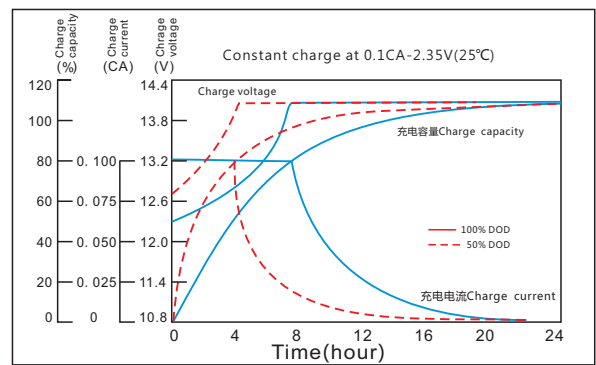
FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	591	333	208	127	73.0	53.3	35.7	24.0	20.0	10.8
1.65V	568	328	206	126	72.8	52.6	35.5	23.8	19.8	10.8
1.70V	565	324	206	125	72.5	52.3	35.2	23.7	19.6	10.7
1.75V	527	322	205	124	72.1	52.0	35.0	23.5	19.4	10.7
1.80V	484	304	201	123	71.9	51.8	34.6	23.3	19.2	10.6
1.85V	432	272	184	115	68.7	49.3	33.0	22.5	18.9	10.5

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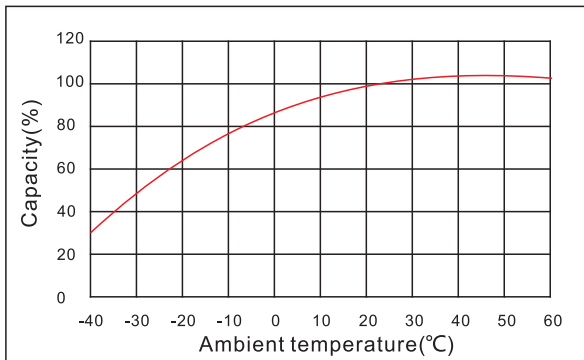
Discharge characteristic



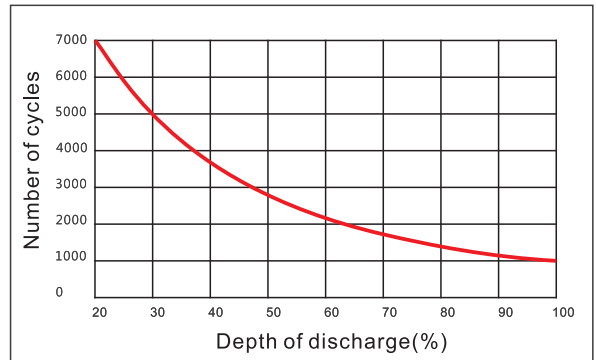
Charging characteristic



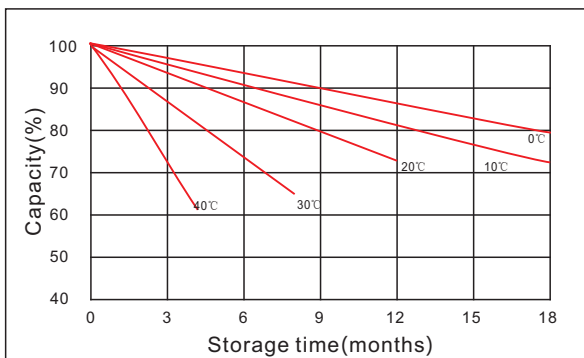
The effect of temperature on capacity



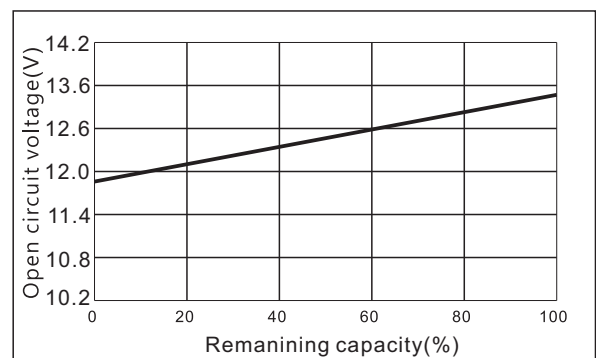
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of discharge depth on cycle life



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