

JPC2-3000



Applications

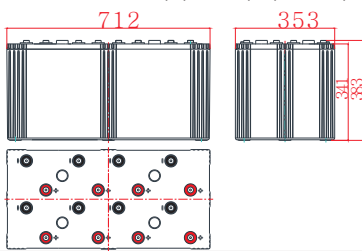
- › Solar / wind energy and other new energy storage
- › Hybrid vehicles, electric bicycles and other new energy vehicles
- › Other backup or cycle purposes

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: 712(L) × 353(W) × 341(H) × 383(TH) Unit: mm



Terminal Dimensions

Specification

Nominal Voltage	2V
Nominal Capacity	3000Ah
Design life	15 years
Terminal	M8
Approx. Weight	Approx 192kg (423lbs)
Container Material	ABS
Rated Capacity	3000Ah 10Hour Rate (300A to 1.80V)
	2331Ah 3Hour Rate (777A to 1.80V)
	1744Ah 1Hour Rate (1744A to 1.75V)
Internal resistance	Full charged at 25°C: 0.11 mΩ
Max. Discharge Current	24000A(5S)
Operating Temperature	Discharge: -40 ~60°C (-40 ~ 140°F)
	Charge: -20 ~50°C (-4 ~ 122°F)
	Storage: -20 ~50°C (-4 ~ 122°F)
Charge current:	Max.900A ; Recom.300~450A
Charge Method (25 °C)	Float Charge: 2.23-2.27V, recom. 2.25V (-3mV/ °C)
	Equalize charge: 2.30-2.35V, recom. 2.35V (-4mV/ °C)
	Cycle charge: 2.40-2.50V, recom. 2.40V (-5mV/ °C)
Self discharge	3% of capacity declined per month at 25°C

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

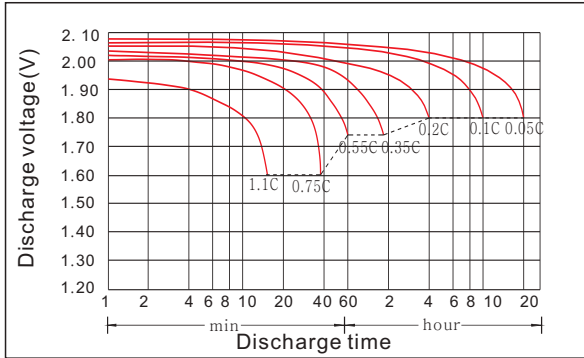
FV/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	3258	2019	1190	873	588	399	328	176
1.65V	3057	1916	1163	852	573	393	325	174
1.70V	2871	1830	1120	827	569	387	320	171
1.75V	2668	1744	1080	802	553	382	316	169
1.80V	2496	1634	1022	777	540	375	300	165
1.85V	2226	1487	952	737	521	364	299	160

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

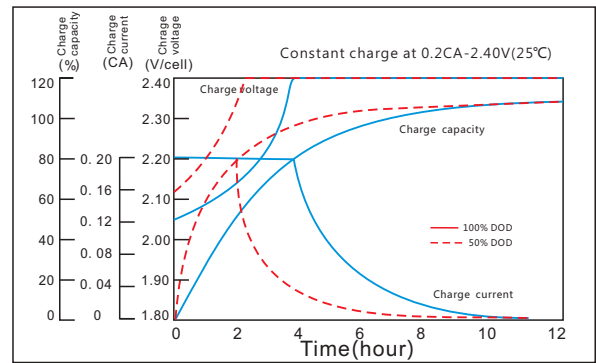
FV/Time	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	5954	4161	2500	1835	1242	842	694	371
1.65V	5723	3845	2420	1768	1203	828	679	363
1.70V	5492	3662	2330	1701	1181	810	658	352
1.75V	5304	3519	2245	1635	1150	780	649	347
1.80V	5117	3314	2141	1580	1117	760	638	342
1.85V	4551	3064	1957	1497	1068	735	614	328

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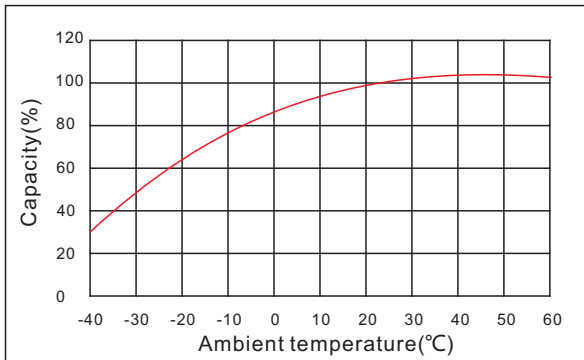
Discharge characteristic



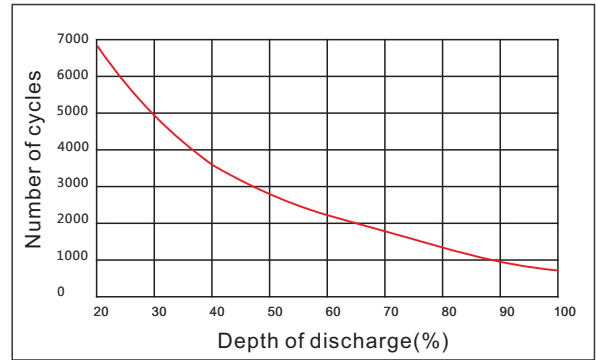
Charging characteristic



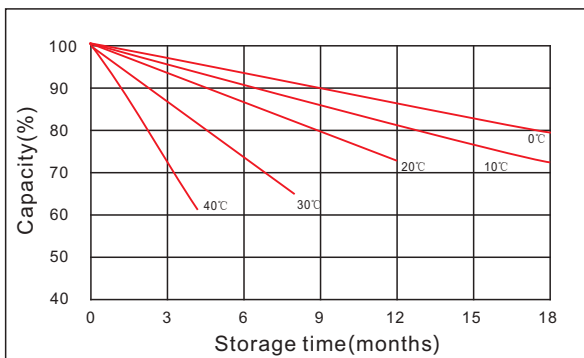
The effect of temperature on capacity



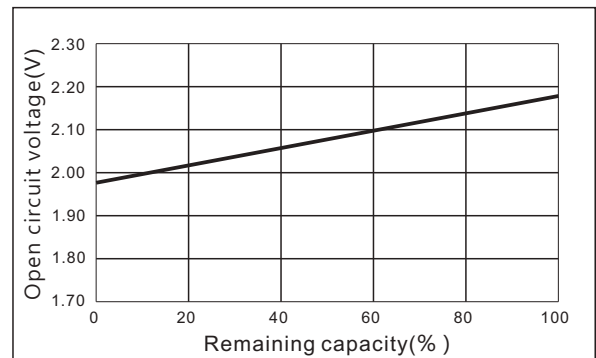
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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