

WECSOLAR+ JPC12-250

JPC Series lead-Carbon battery

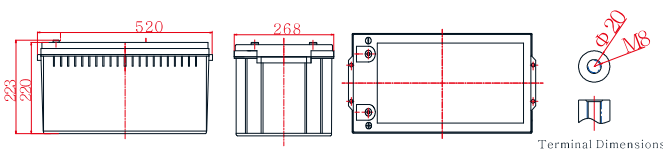


General Features

- 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: 520(L)×268(W)×220(H)×223(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	250Ah
Design life	15 years
Terminal	M8
Approx. Weight	Approx 68.0kg (150lbs)
Container Material	ABS
Rated Capacity	250Ah 20Hour Rate (12.5A to 10.8V)
	201Ah 3Hour Rate (67.1A to 10.8V)
	164Ah 1Hour Rate (164A to 10.5V)
Internal resistance	Full charged at 25°C: 2.70 mΩ
Max. Discharge Current	3000A(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. 75.0A ; Recom.25.0~50.0A
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)

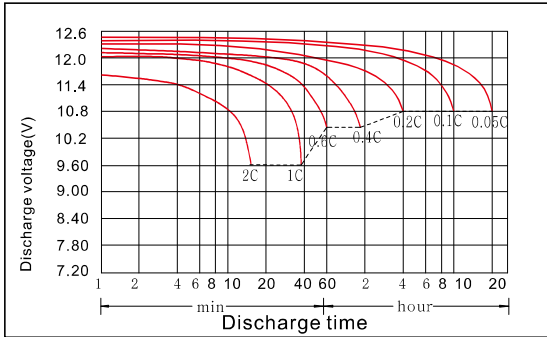
FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	881	473	288	168	96.5	70.0	47.1	30.8	26.0	12.8
1.65V	854	458	283	167	96.0	69.4	46.5	30.6	25.8	12.7
1.70V	821	450	277	166	95.2	68.3	46.0	30.4	25.4	12.6
1.75V	754	435	275	164	93.8	67.7	45.6	30.2	25.2	12.6
1.80V	675	404	265	160	92.1	67.1	44.4	29.8	25.0	12.5
1.85V	602	360	240	148	87.5	63.1	42.1	28.8	24.2	12.3

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

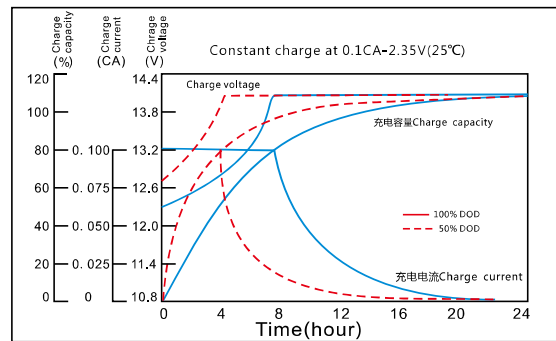
FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	1477	833	521	319	183	133	89.2	60.0	50.0	27.1
1.65V	1421	819	517	317	182	132	88.8	59.6	49.6	26.9
1.70V	1413	808	517	313	181	131	87.9	59.4	49.0	26.7
1.75V	1319	804	513	310	180	130	87.5	58.8	48.5	26.7
1.80V	1210	760	502	308	180	130	86.5	58.3	47.9	26.5
1.85V	1081	679	460	285	172	123	82.5	56.3	47.3	26.3

Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

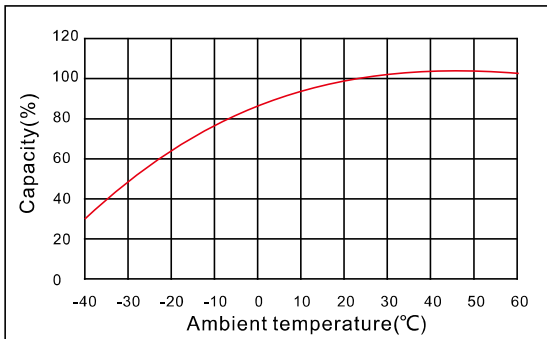
Discharge characteristic



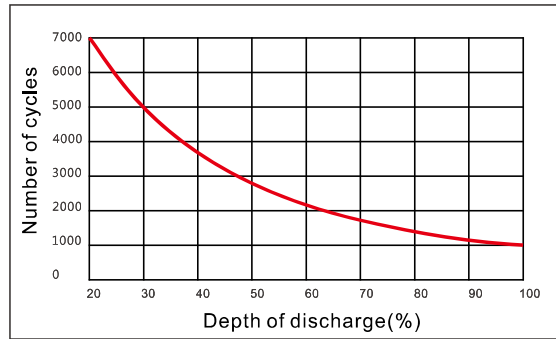
Charging characteristic



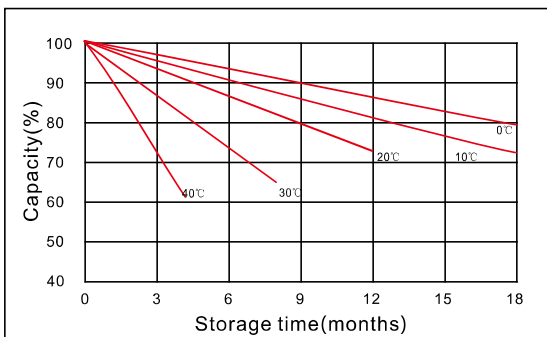
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



The effect of discharge depth on cycle life

