

JPC6-250



JPC Series lead-Carbon battery

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

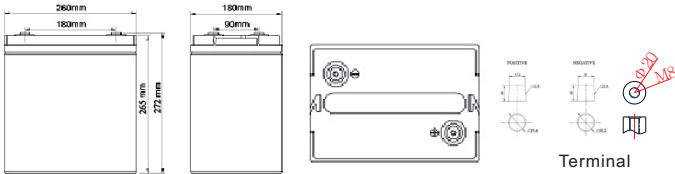
- › Lead-carbon composite negative plate, both capacitance and battery characteristics
- › Long cycle life, excellent deep cycle discharge ability
- › Excellent charge acceptance ability
- › Optimized capability of instant high-current discharging
- › Strong high and low temperature performance
- › Precision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

Specification

Nominal Voltage	6V
Nominal Capacity	250Ah
Design life	15 years
Terminal	M8/DT
Approx. Weight	Approx 35.5kg (78.3lbs)
Container Material	ABS
Rated Capacity	250Ah → 20Hour Rate (12.5A to 5.40V)
	225Ah → 10Hour Rate (22.5A to 5.40V)
	195Ah → 5Hour Rate (39.0A to 5.40V)
	134Ah → 1Hour Rate (134A to 5.25V)
Internal resistance	Full charged at 25°C: 2.50 mΩ
Max. Discharge Current	2500A(5S)
Operating Temperature	Discharge: -20 ~60°C (-4~ 140°F)
	Charge: -20 ~60°C (-4~ 140°F)
	Storage: -20 ~60°C (-4~ 140°F)
Charge current:	Max.75.0A ; Recom.25.0A
Charge Method (25 °C)	Standby Use: Initial Charging Current Less than 75A Voltage 6.80-6.90V
	Cycle Use : Initial Charging Current Less than 75A Voltage 7.2-7.45V
Self discharge	3% of capacity declined per month at 25°C



Dimension: 260(L)×180(W)×265(H)×272(TH) Unit: mm



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

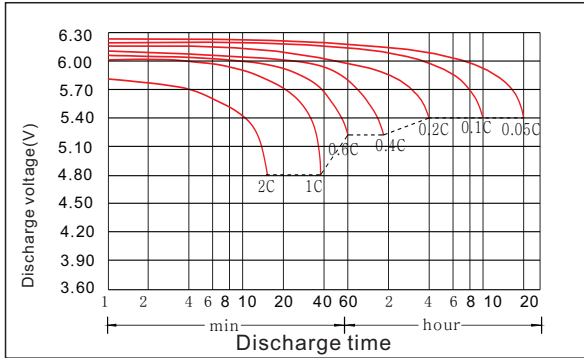
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
1.60V	328	209	154	142	89.9	63.1	43.0	28.3	24.8	13.5	3.00
1.65V	322	205	151	139	88.2	62.0	42.1	27.8	24.3	13.3	2.94
1.70V	316	201	149	137	86.6	60.8	41.3	27.3	23.9	13.0	2.89
1.75V	310	198	146	134	85.0	59.7	40.5	26.8	23.4	12.8	2.83
1.80V	298	190	140	129	81.7	57.4	39.0	25.8	22.5	12.5	2.78

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

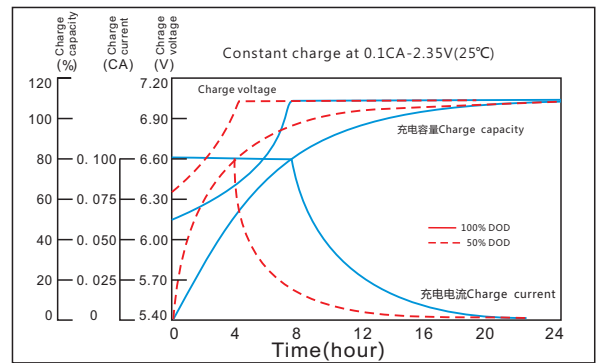
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
1.60V	632	402	297	273	173	122	82.6	54.6	47.6	26.0	5.78
1.65V	620	395	292	268	170	119	81.1	53.6	46.8	25.5	5.66
1.70V	609	388	286	263	167	117	79.6	52.5	45.9	25.0	5.55
1.75V	597	380	281	258	164	115	78.2	51.5	45.0	24.5	5.45
1.80V	574	366	270	248	157	110	75.1	49.6	43.4	24.1	5.34

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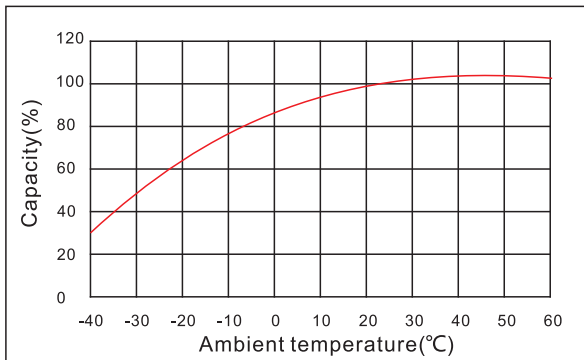
Discharge characteristic



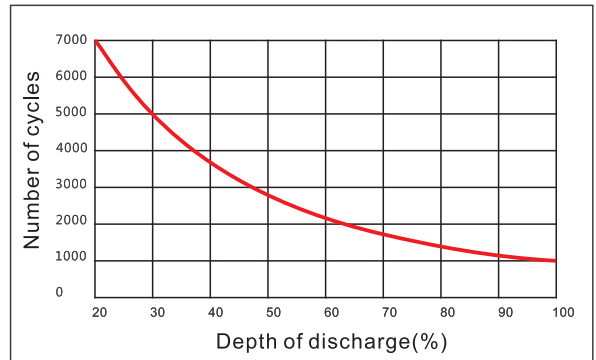
Charging characteristic



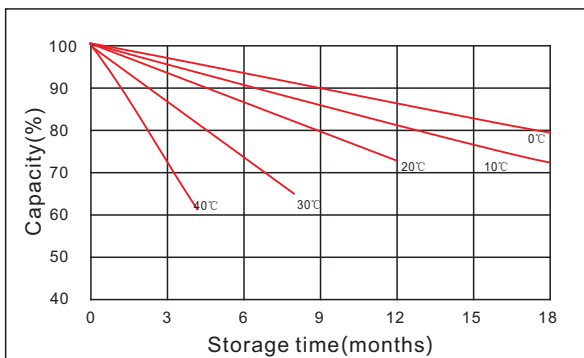
The effect of temperature on capacity



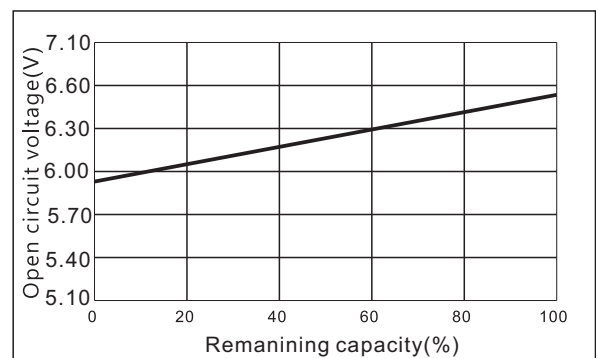
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of discharge depth on cycle life



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