Lead Carbon Battery

12RP200LCB

General Features

- Designed floating charging service life: 12 years (25ºC)
- Sealed and maintenance free operation
- Safety valve installation for explosion proof
- Low self-discharge characteristic
- Wide operating temperature range from 0ºC~40ºC
- Lead Aluminum calcium Tin alloy high energy, prevent corrosion

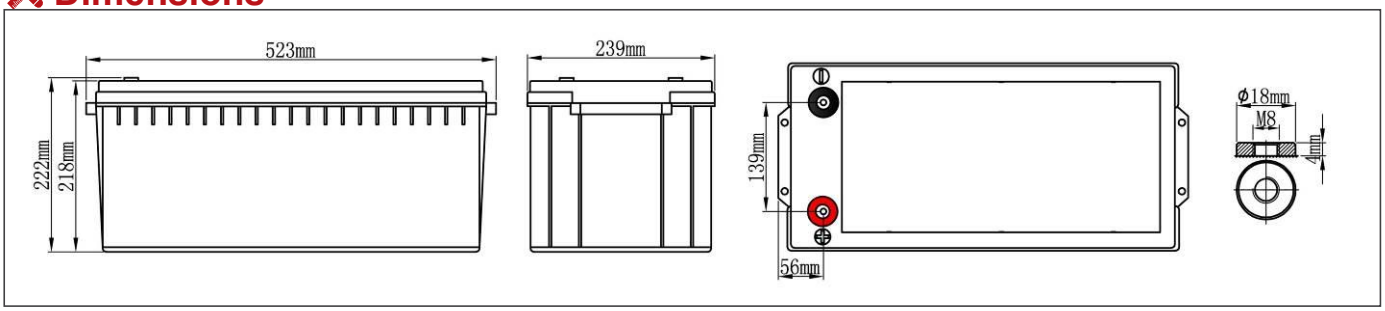
Application

- Electric tools/toys
- Electric wheel chairs
- Golf trolleys and golf carts
- Solar lighting systems
- Solar/wind energy storage systems
- Telecom stations and power stations

Physical Specifications

Nominal Voltage	Nominal Capacity (10HR)	Dimension				Weight ±2%	Internal Resistance (In full charge status)	Standard Terminals
		L	W	H	TH			
12V	220AH	523±3mm	239±2mm	218±3mm	222±3mm	Approx 64kg (140.8lbs)	≈3.1mΩ	T41 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity	
20 hour rate (11.0A)	234.0AH
10 hour rate (22.0A)	220.0AH
5 hour rate (37.4A)	187.0AH
3 hour rate (55.0A)	165.0AH
1 hour rate (132.0A)	136.0AH
Capacity affected by Temperature	
40ºC(104ºF)	103%
25ºC(77ºF)	100%
0ºC(32ºF)	86%

Cycle Application
1. Limit initial current less than 55A.
2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25ºC(77ºF).
3. Hold at 14.1V to 14.4V until current drop to under1.32A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -30mV/ºC.
Standby Service
1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit*55.0*A continuously .When held at this voltage , the battery will seek its own current level and maintain itself in a fully charge status.
2. Temperature compensation coefficient of charging voltage is -18mV/ºC.

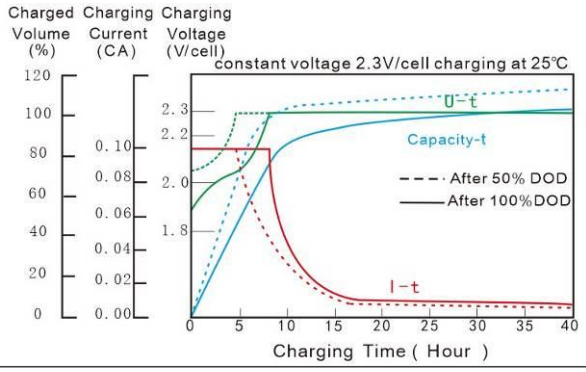
⚠ NOTE : The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation

Battery Discharge Table

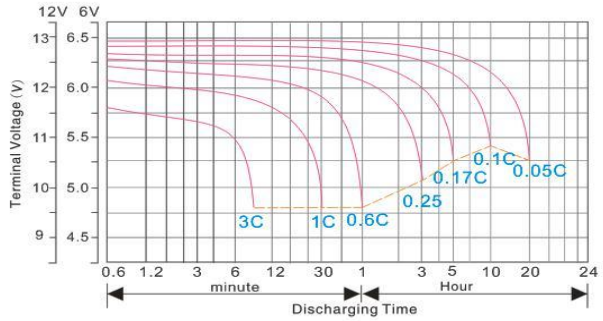
End Voltage	Minute (M)				Hour (H)							
	10	15	30	45	1	1.5	2	3	5	8	10	20
Constant Current Discharge Data Sheet (@25ºC) Unit: A												
9.6V	524	414	233	201	136	108	91	58	40.2	26.7	22.8	12.0
9.9V	499	395	222	194	133	106	89	56	39.3	26.3	22.6	11.9
10.2V	476	376	212	188	131	104	87	55	38.3	25.8	22.4	11.8
10.5V	453	357	202	181	128	101	85	53	37.4	25.2	22.2	11.7
10.8V	432	342	192	175	125	98	83	52	36.4	24.8	22.0	11.6
Constant Power Discharge Data Sheet (@25ºC) Unit: W												
9.6V	5184	4523	2859	2004	1667	1217	909	677	438	332	256	137
9.9V	4938	4308	2722	1935	1627	1185	888	662	427	325	254	136
10.2V	4703	4103	2593	1872	1586	1156	865	645	416	318	251	134
10.5V	4478	3906	2469	1807	1546	1128	844	629	406	312	249	133
10.8V	4265	3721	2351	1745	1509	1101	823	614	395	306	247	132

Performance Characteristics

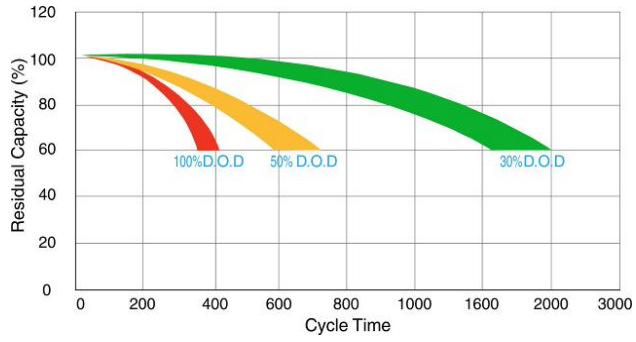
Charge Characteristics (25ºC/77ºF)



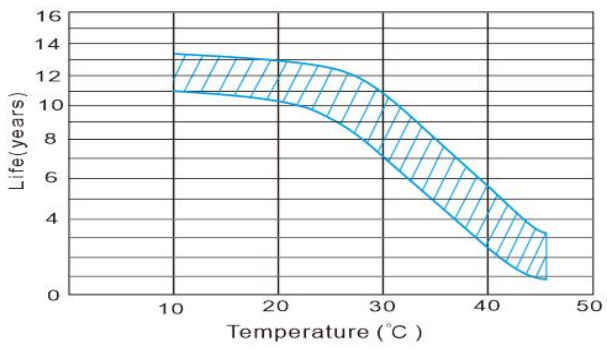
Discharge Characteristic (25ºC/77ºF)



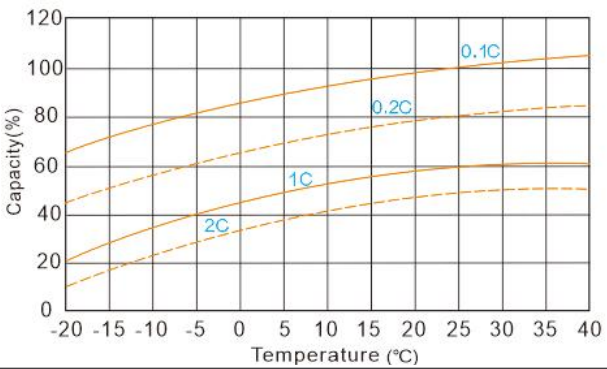
Cycle Life in Relation to Depth of Discharge



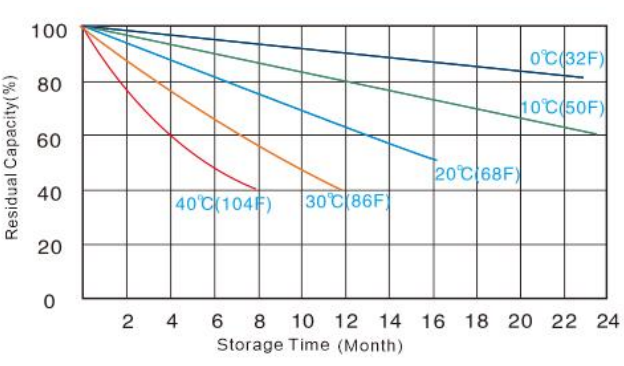
Temperature vs Float Life



Capacity Curve At Different Temperature



Self Discharge Characteristics



☆The datasheet subjects to change without prior notice,please contact with us if have any questions。