

Lead Carbon Battery

12RP100LCB



General Features

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

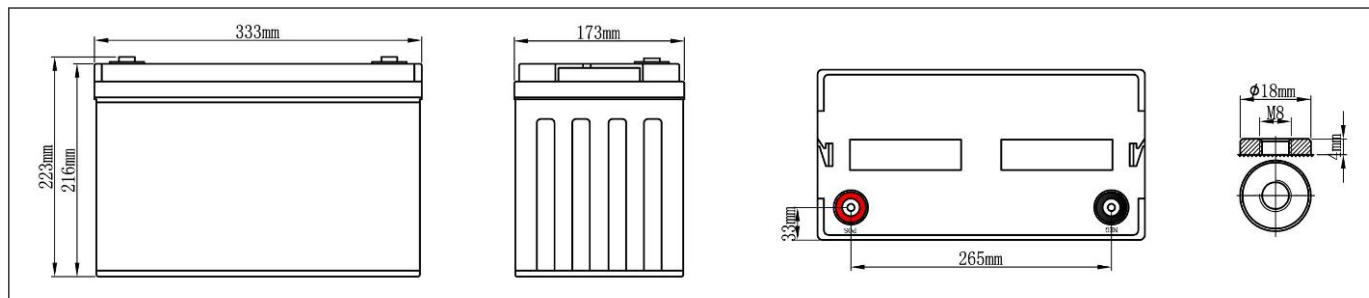
Application

- 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	110AH	333±3mm	173±2mm	216±3mm	223±3mm	Approx 31.8kg (69.96lbs)	≈4.2 mΩ	T13 (standard)

Dimensions



Constant-Voltage Charge

Rated Capacity	
20 hour rate (5.50A)	115.4AH
10 hour rate (11.0A)	110.0AH
5 hour rate (18.7A)	93.5AH
3 hour rate (27.5A)	82.5AH
1 hour rate (66.0A)	69.7AH
Capacity affected by Temperature	
40°C(104°F)	103%
25°C(77°F)	100%
0°C(32°F)	86%

Cycle Application	
1. Limit initial current less than 27.5A.	
2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C(77°F).	
3. Hold at 14.1V to 14.4V until current drop to under 0.66A for at least 3 hours.	
4. Temperature compensation coefficient of charging voltage is -30mV/°C.	
Standby Service	
1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 27.5A 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/°C.	

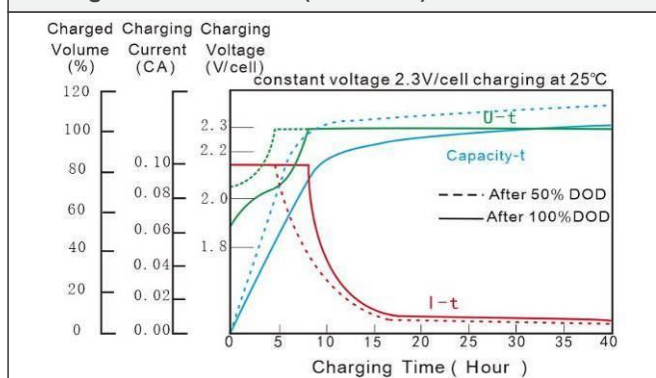
NOTE : The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation

Battery Discharge Table

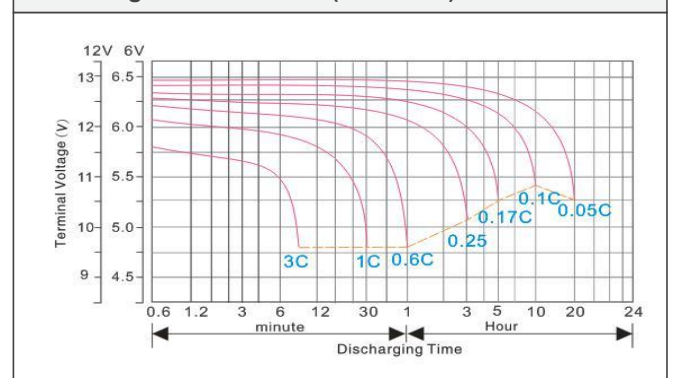
End Voltage (V)	Minute (M)				Hour (H)							
	10	15	30	45	1	1.5	2	3	5	8	10	20
Constant Current Discharge Data Sheet (@25°C) Unit: A												
9.6V	260	206	115	100	69.7	55.5	46.5	28.6	19.9	13.6	11.4	5.95
9.9V	248	196	110	96.4	68.6	53.3	45.3	28.2	19.5	13.4	11.3	5.89
10.2V	236	186	105	93.2	66.4	52.3	44.2	27.6	19.1	13.2	11.2	5.82
10.5V	224	178	100	90.1	65.4	51.2	43.3	27.0	18.8	12.9	11.1	5.77
10.8V	214	169	95.4	86.8	64.2	50.1	42.1	26.4	18.2	12.7	11.0	5.72
Constant Power Discharge Data Sheet (@25°C) Unit: W												
9.6V	2865	2375	1534	1075	895	652	487	364	235	178	137	73.9
9.9V	2729	2262	1461	1038	873	635	475	355	230	175	136	73.2
10.2V	2598	2154	1391	1004	851	621	464	346	224	171	135	72.5
10.5V	2475	2051	1325	970	830	605	453	338	218	167	134	71.8
10.8V	2357	1954	1262	936	810	590	442	330	213	165	132	71.1

Performance Characteristics

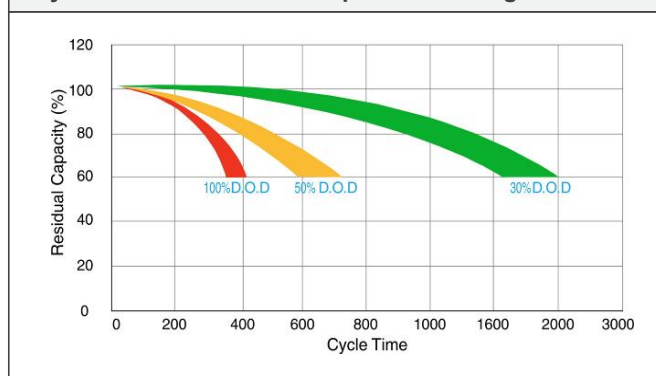
Charge Characteristics (25°C/77°F)



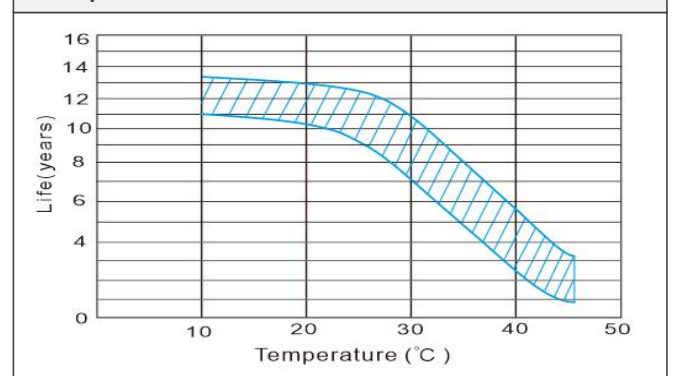
Discharge Characteristic (25°C/77°F)



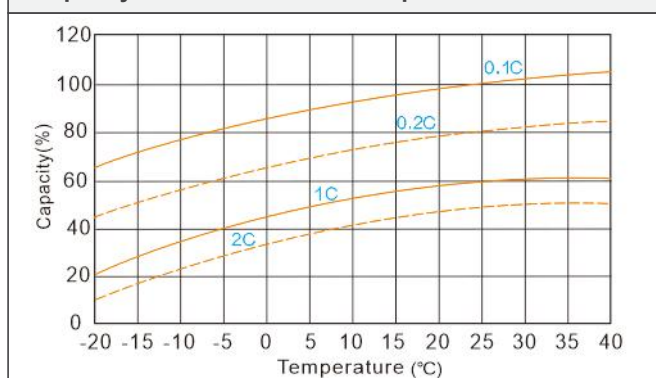
Cycle Life in Relation to Depth of Discharge



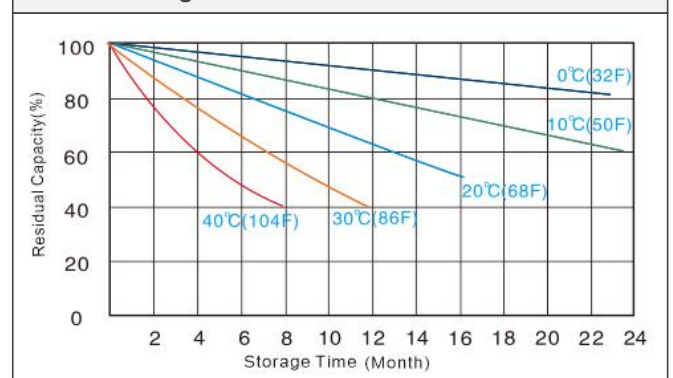
Temperature vs Float Life



Capacity Curve At Different Temperature



Self Discharge Characteristics



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