



CD SERIES

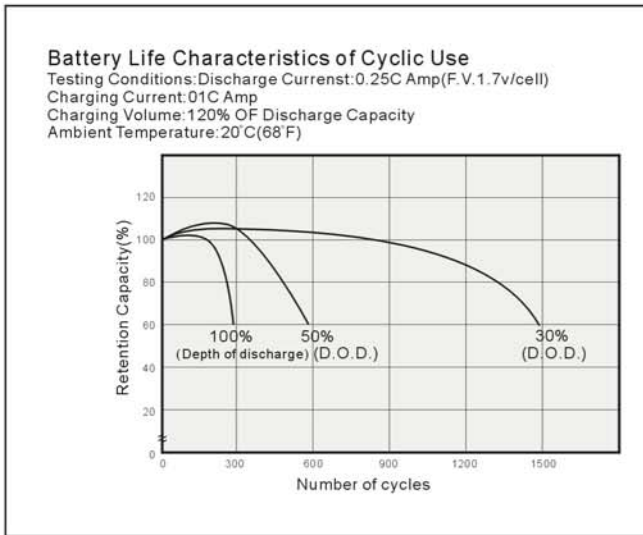
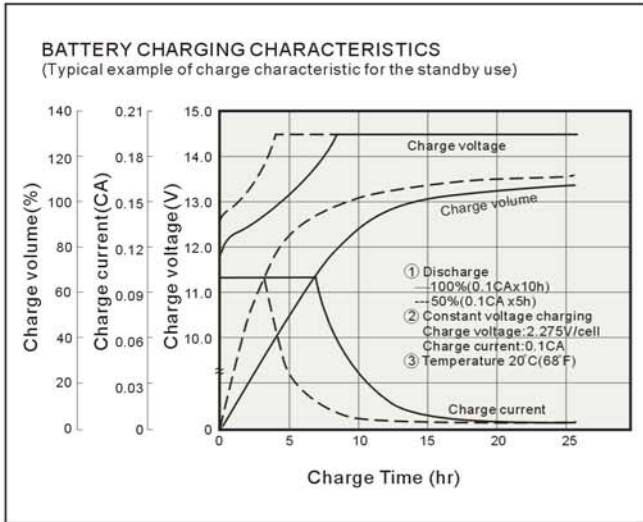
CCB 12CD-100A (12V100AH)

FEATURES

- *Maintenance Free
- *Leak Proof/ Spill Proof
- *Gas Recombination
- *Absorbed Electrolyte
- *Float/ Cycle Use
- *Low Self Discharge Rate
- *Safety Valve
- *Lead Calcium Alloy
- *Useable In Any Position
- *Rugged Design
- *Available Flame Retardent Material(Optional)

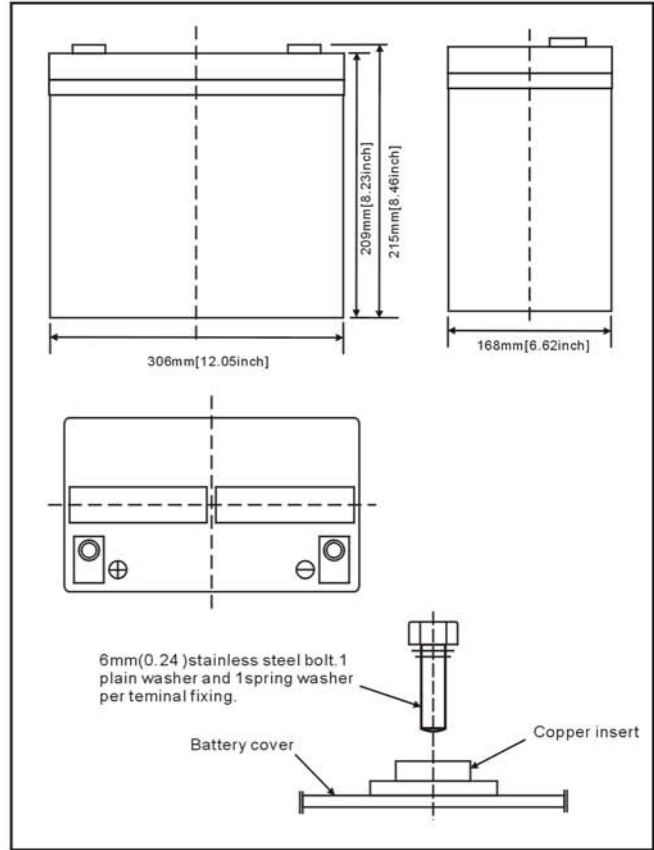
Nominal Voltage		
Rated Capacity (20 Hour Rate)		
Dimensions	Length	306mm(15.05inches)
	Width	168mm(6.62inches)
	Height	209mm(8.23inches)
	Total Height	215mm(8.46inches)
	Weight	29kg(63.80lbs)

VRLA 12V100Ah - Specifications				
Nominal Voltage	Rated Capacity @20hr rate	Maximum Charge Rate	Maximum Discharge- Amps 5sec.	Internal Resistance
12V	100Ah	50Amps	1000Amps	4.5Mili Ohms
Capacity @ 77 F(25°C)	106Ah @ 20 hour rate (5.3A) to 1.75 volts per cell			
	100Ah @ 10 hour rate (10A) to 1.75 volts per cell			
	85Ah @ 5 hour rate (17A) to 1.75 volts per cell			
	25Ah @ 3 hour rate (75A) to 1.75 volts per cell			
	57Ah @ 1 hour rate (57A) to 1.75 volts per cell			
Operating Temperature Range	Discharge	-4 F (-20°C) to + 140 F (60°C)		
	Charge	14 F (-10°C) to + 122 F (50°C).(with temperature compensation)		
Recomanded Operating Temperature Range	+68°F (20°C)to + 77°F (25°C)			
Self Discharge @ 77 F (25°C)	Capacity after 3 month storage		90%	
	Capacity after 6 month storage		80%	
	Capacity after 12 month storage		60%	
	CCB Battery may be stored for up to 12 months at 77F(25°C) and then a freshing charge is required.For higher temperatures the time interval will be shorter.			
Capacity affected by Temperature (20 hour rate)	104 F (40°C)		102%	
	77 F (25°C)		100%	
	32 F (0°C)		85%	
	5 F (-15°C)		65%	
Charge Method (Constant Voltage)	Cycle use (Repeating use)	Initial current	20 A or smaller	
		Control voltage	14.5V to 14.9V (per 12V cell 25°C)	
	Float use	Initial current	20A or smaller	
		Control voltage	13.6V to 13.8V(per 12V cell25°C)	



Charging Procedure

Application	Charging method	Charging Voltage at 20°C (V/cell)	Temperature compensation coefficient of charging voltage (mV/Ccell)	Max. charging current (CA)	Charging time 0.1CA, 20°C (h)		Temp (°C)
					100% discharge	50% discharge	
For standby power Source	Constant voltage & Constant current charging (with current restriction)	2.25~2.30	-3	0.3	24	20	0~40 (32~104°F)
For cycle service		2.40~2.0	-4	0.3	16	10	



Constant power discharge characteristics at 25°C/77°F

Final Voltage	Discharge time						
	5Min	10Min	15Min	30Min	1Hr	3Hr	5Hr
	Battery output power (W)						
1.80V	428	335	267	174	112	47.5	32.0
1.75V	479	356	287	180	114	48.8	32.2
1.60V	578	4.3	313	212	120	50.0	32.7

Constant power discharge characteristics at 25°C/77°F

End VPC	Discharge time						
	1Hr	2Hr	3Hr	5Hr	8Hr	10Hr	20Hr
	Battery output power (Amp)						
1.85V	51.0	31.0	24.0	16.0	11.0	9.7	5.0
1.80V	54.0	32.8	24.8	16.6	11.3	9.8	5.2
1.75V	57.0	33.5	25.0	17.0	11.5	10.0	5.3

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