



HIGH RATE SERIES



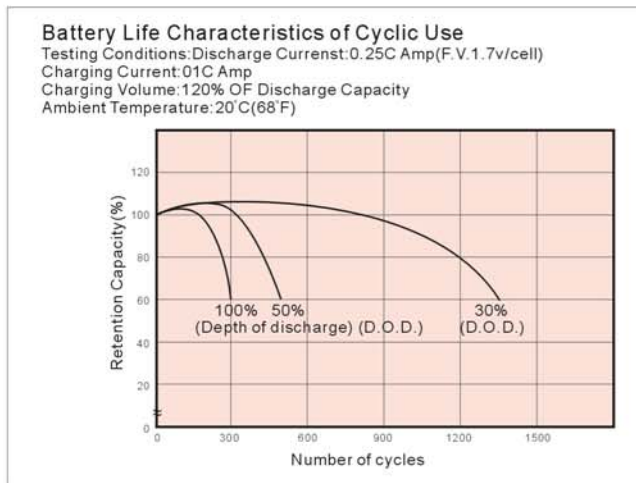
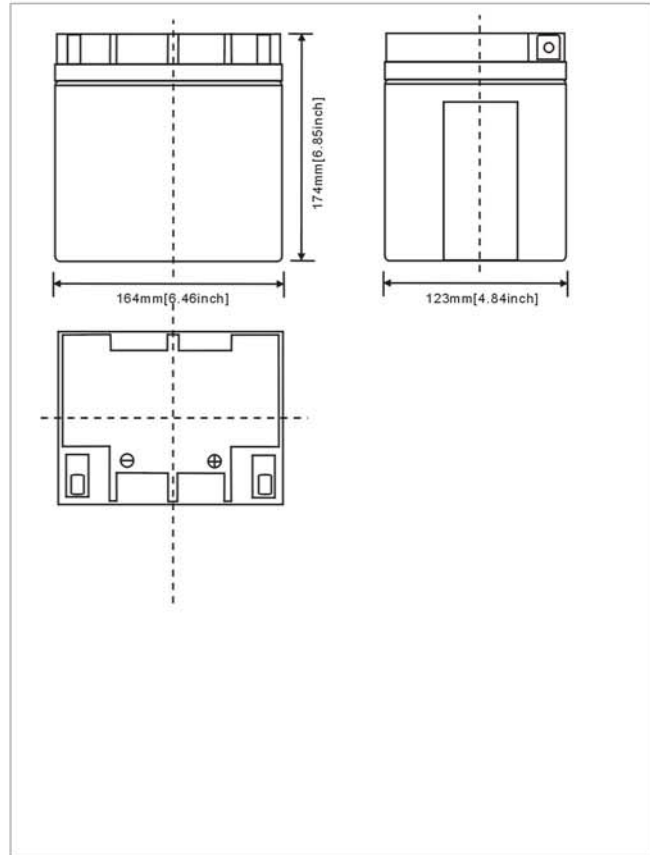
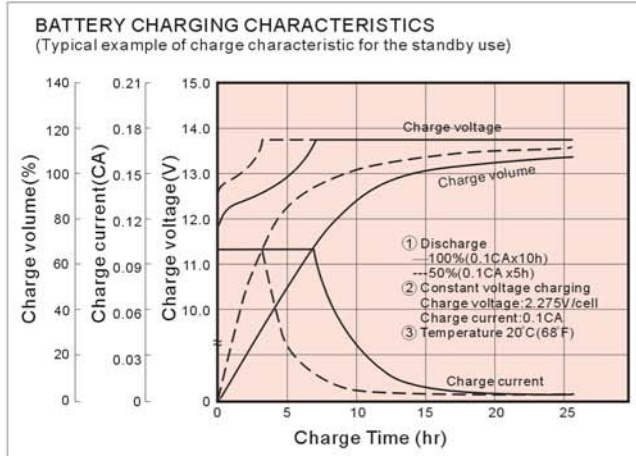
CCB 12HD-91
 FOR UPS STANDBY
 POWER APPLICATIONS
 (12V26AH@ 20HR Rate)
 (12V91Watts/Cell@15Min Rate)

FEATURES

- *Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance.
- *Computer-generated grid design optimized for high power density.
- *Float/ Cycle Use
- *Low Self Discharge Rate
- *Safety Valve
- *Lead Calcium Alloy
- *Useable In Any Position
- *UL-recognized component
- *Available Flame Retardant Material(Optional)

Nominal Voltage		
Rated Capacity (20 Hour Rate)		
Dimensions	Length	164mm (6.46inches)
	Width	123mm (4.84inches)
	Height	174mm (6.85inches)
	Total Height	182mm (7.17inches)
	Weight	10kg(22.04lbs)

VRLA 12V26Ah - Specifications				
Nominal Voltage	Rated Capacity @20hr rate	Maximum Charge Rate	Maximum Discharge- Amps 5sec.	Internal Resistance
12V	26Ah	5Amps	500Amps	60Milli Ohms
Capacity@ 77 F(25 C)	91.5 watts per cell @ 15 Min. Rate to 1.67 volts per cell			
	26.0Ah @ 20 Hr. Rate to 1.75 volts per cell			
	24Ah @ 10Hr. Rate to 1.80 volts per cell			
	23Ah @ 5Hr. Rate to 1.75 volts per cell			
	17Ah @ 1Hr. Rate 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)			
Charging (Constant Voltage)	Cycle use	Initial Current5.2Amps (recommended).		
		Voltage 14.5-14.9Volts @77 F (25°C)		
	Float use	Voltage13.6-13.8Volts @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 77 F(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%		
	58°F (-15°C)	65%		
Charge Method (Constant Voltage)	Cycle use (Repeating use)	Initial current	1.36 A or smaller	
		Control voltage	14.5V to 14.9V	
	Trickle use	Initial current	0.51 A or smaller	
		Control voltage	13.6V to 13.8V	



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

Voltage Per Bat.	Discharge time						
	5Min	10Min	15Min	20Min	30Min	40Min	50Min
1.75V	155	110	88.3	72.2	56.0	45.5	38.5
1.70V	168	115	90.2	73.1	56.5	48.0	39.0
1.67V	175	118	91.5	75.2	57.0	46.5	39.0

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	2.25~2.30	-3	0.3	24	20	0~40 (32~104°F)
For cycle service (with current restriction)	Constant current charging (with current restriction)	2.40~2.0	-4	0.3	16	10	

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

End VPC	Discharge time						
	1Hr	2Hr	3Hr	5Hr	8Hr	10Hr	20Hr
1.85V	15.0	9.00	6.60	4.25	2.85	2.35	1.25
1.80V	16.1	9.40	6.85	4.45	2.95	2.40	1.28
1.75V	16.9	9.75	7.00	4.50	3.05	2.45	1.30

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