



# CA122000(12V200AH)

## Features:

- ◆ Maintenance-free operation
- ◆ Stable quality and high reliability
- ◆ Compact design
- ◆ 10 years design time (at 25°C)



ISO 14001:2004  
ISO 9001:2008



## Applications

- ◆ UPS
- ◆ Emergency lighting
- ◆ Fire alarm and security systems
- ◆ Telecommunication system
- ◆ Backup power for testing and measuring instruments
- ◆ Alarm and security system
- ◆ Electronic apparatus and equipment
- ◆ Communication power supply
- ◆ DC power supply
- ◆ Auto control system



## Specifications

Nominal Voltage	12V(6cells)	Operationg Temp Range	Discharge: -15—50°C(5—122°F) Charge : 0—40°C(32—104°F) Storage : -15—40°C(5—104°F)		
Nominal Capacity	200AH (10hr,1.80V/cell,25°C/77°F)	Nominal Operating Temp. Range	25±3°C(77±5°F)		
	170AH (5hr,1.75V/cell,25°C/77°F)		Cycle Use	14.4~14.8V(25°C/77°F)Temp.Coefficient-30mV/°C Initial Charging Current Less than 60A	
	120AH (1hr,1.60V/cell,25°C/77°F)		Standby Use	13.5V~13.8V(25°C/77°F)Temp.Coefficient-20mV/°C No limit on Initial Charging Current	
Dimension	Length	522±2mm	Capacity affected by Temperature	40°C(104°F)	103%
	Width	240±2mm		25°C(77°F)	100%
	Container Height	219±2mm		0°C(32°F)	86%
	Total Height(with Terminal)	224±3mm		Self Discharge	CASIL CA series batteries may be stored for up to 6months at 25°C(77°F)and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Approx Weight	Approx 61.5Kg				
Terminal	T5 or F7				
Container Material	ABS				
Max. Discharge Current	2000A(5S)				
Internal Resistance	Approx 3.2mΩ				

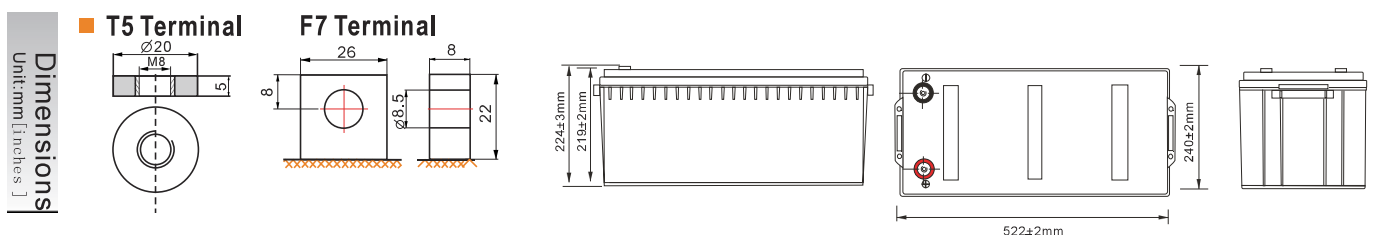
### Constant Current Discharge(Amperes at 25°C/77 °F)

F.V/Time	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	358	292	182	140	114	66.6	50.0	34.4	20.2	10.40
1.70V/cell	420	342	196	150	121	70.4	52.4	35.6	20.6	10.70
1.60V/cell	470	378	216	162	130	74.4	54.8	37.0	21.0	11.00

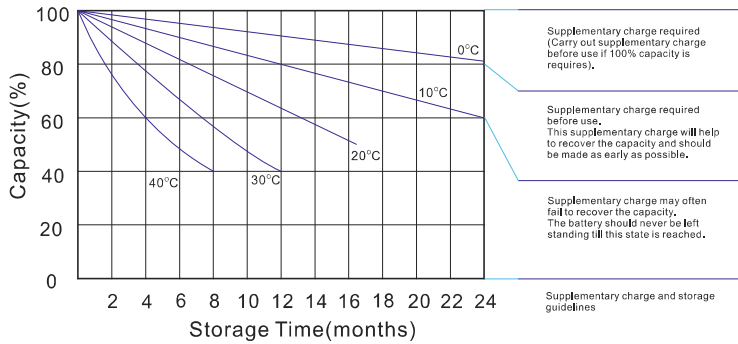
### Constant Power Discharge(Watts per cell at 25°C/77 °F)

F.V/Time	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	656	554	342	266	222	128.2	97.0	68.0	40.0	20.58
1.70V/cell	740	612	368	286	230	134.8	101.0	69.8	40.6	21.12
1.60V/cell	806	662	400	302	245	140.4	104.8	71.6	41.0	21.64

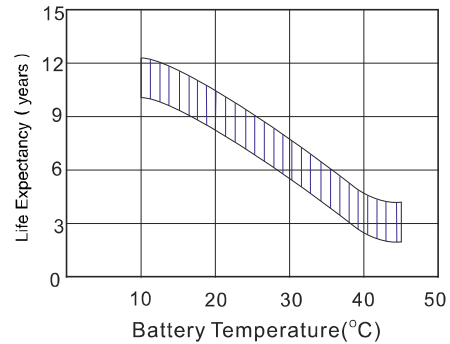
Note: The above characteristics data are average values obtained within three charge/discharge cycles, not the minimum values.



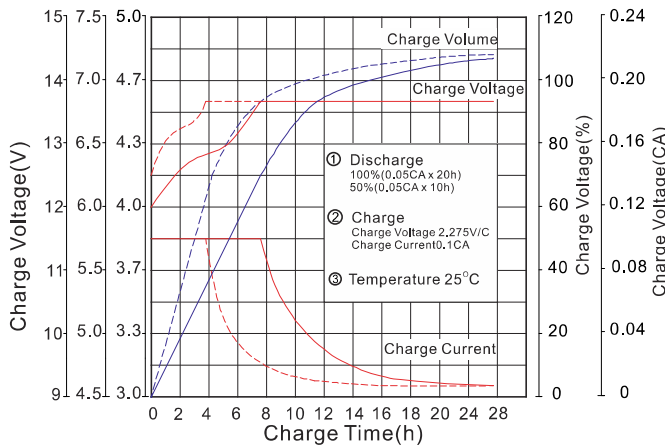
## Storage characteristics



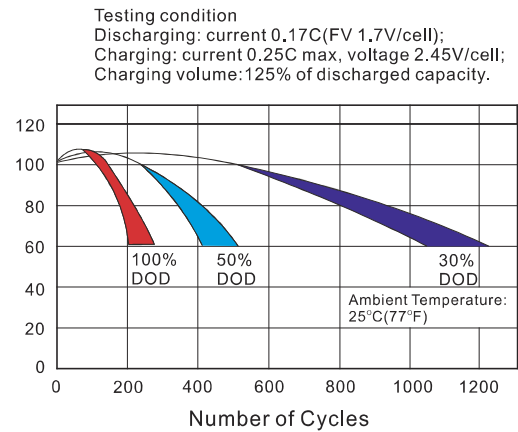
## Effect of temperature on long term float life



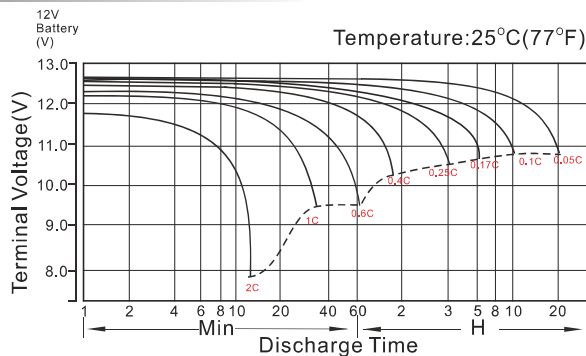
## Charge characteristic Curve for standby use



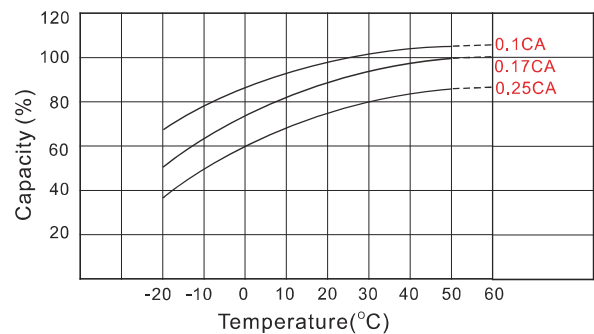
## Cycle Life in Relation to Depth of Discharge



## Discharge characteristic Curve



## Temperature Effects in Relation to Battery Capacity



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