

## EDC2-200 (2V 200Ah)

### Specifications

Nominal Voltage	2V	
Nominal Capacity(10 Hr)	200Ah	
Dimension	Length	170±1mm( 6.69 inches)
	Width	106±1mm( 4.17 inches)
	Containeriner Height	330±1mm( 12.99 inches)
	Total Height (With terminal)	367±1mm( 14.45 inches)
	Approx Weight	Approx13.0kgs(28.66lbs)
Design life	15 years	
Terminal	M8	
Container Material	ABS	
Rated Capacity	212.0Ah/10.6A	(20hr, 1.75V/Cell, 25 °C/77°F)
	200.0Ah/20.0A	(10hr, 1.80V/Cell, 25 °C/77°F)
	176.0Ah/35.2A	(5hr, 1.75V/Cell, 25 °C/77°F)
	128.1Ah/128.1A	(1hr, 1.60V/Cell, 25 °C/77°F)
Max. Discharge Current	1000A(5s)	
Internal Resistance	Appro≤0.7mΩ	
Operating Temp. Range	Discharge: -20 °C~50 °C	
	Charge: -20 °C~50 °C	
	Storage: -20 °C~50 °C	
Nominal Operating Temp. Range	25±3 °C(77±5°F )	
Cycle Use	Initial Charging Current Less than 30.0 A. Voltage 2.33V-2.37V at 25 °C(77°F ) Temp. Coefficient-20mV/C	
	Standby Use No limit on Intital Charging Current Voltage 2.23V-2.27V at 25 °C(77°F ) Temp. Coefficient-20mV/C	
Capacity affected by Temperature	40 °C( 104°F )	102%
	25 °C( 77°F )	100%
	0 °C( 32°F )	85%
Self Discharge	EDC series batteries may be stored for up to 6 months at25 °C(77°F ) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	



### Application

- ◆ All purpose
- ◆ Uninterruptable Power Supply(UPS)
- ◆ Electric Power System(EPS)
- ◆ Emergency backup power supply
- ◆ Emergency light
- ◆ Railway signal
- ◆ Aircraft signal
- ◆ Alarm and securitysystem
- ◆ Electronic apparatus & equipment
- ◆ Communication power supply
- ◆ DC power supply
- ◆ Auto controlsystem

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

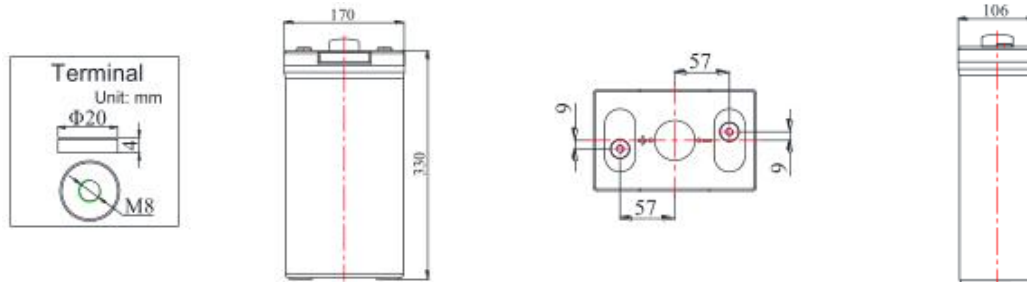
F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	212.6	161.0	128.2	75.0	57.2	44.4	37.2	32.4	26.0	21.0	11.10
1.65V	201.4	154.8	124.0	72.6	55.4	43.4	36.6	31.8	25.8	20.6	11.00
1.70V	195.6	149.2	120.6	70.6	54.0	42.4	35.8	31.2	25.4	20.4	10.88
1.75V	187.0	142.6	116.2	68.8	52.8	41.4	35.2	30.6	25.2	20.2	10.78
1.80V	180.2	137.4	112.2	66.2	51.2	40.4	34.4	30.0	24.4	20.0	10.60

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

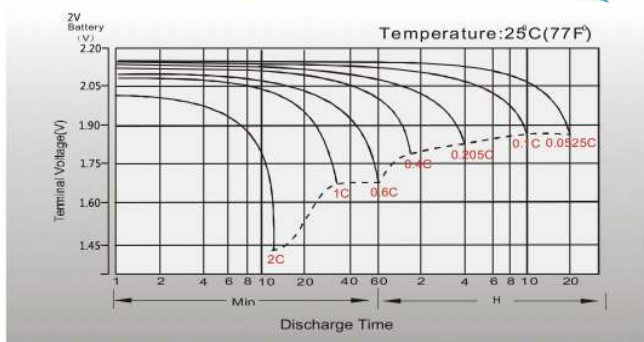
F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	410.2	305.8	246.8	142.2	109.4	85.2	71.8	62.6	51.2	41.0	21.8
1.65V	391.8	295.4	240.2	138.4	106.6	83.6	70.6	61.6	50.8	40.6	21.4
1.70V	375.2	286.0	232.0	135.2	104.2	82.0	69.6	60.8	50.0	40.2	21.2
1.75V	356.6	274.6	223.6	132.0	102.2	80.2	68.6	59.8	48.8	39.8	21.0
1.80V	341.6	265.4	216.4	127.6	99.4	78.4	67.2	58.8	47.8	39.6	20.8

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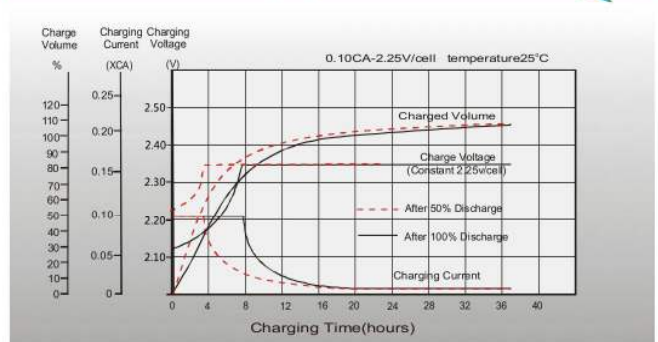
## Dimensions



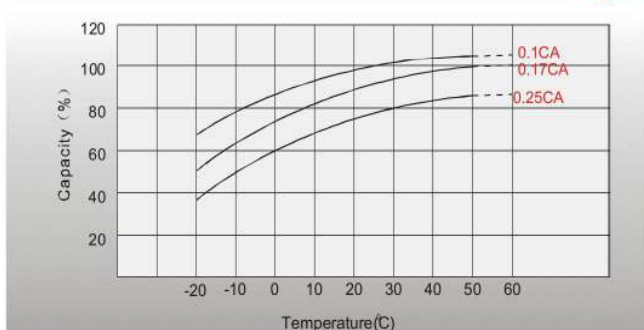
## Discharge Characteristics



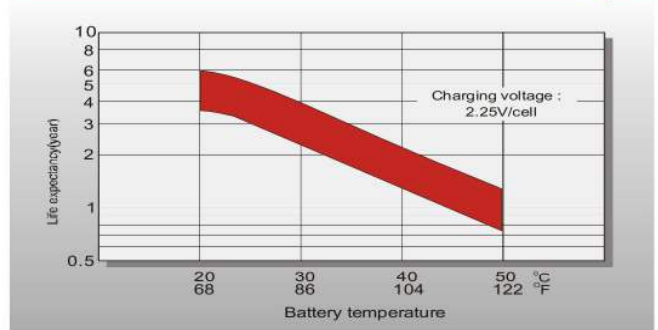
## Float Charging Characteristics



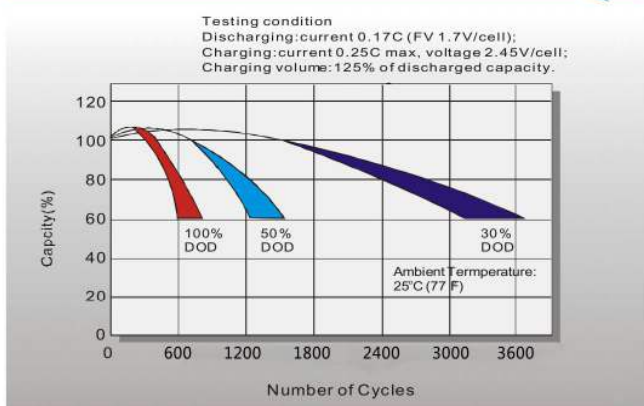
## Temperature Effects in Relation to Battery Capacity



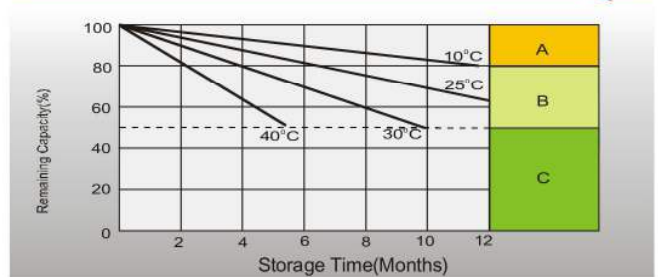
## Effect of Temperature on Long Term Float Life



## Cycle life in Relation to Depth of Discharge



## Self-discharge Characteristics



- A** No supplementary charge required. (Carry out supplementary charge before use if 100% capacity is required.)
- B** Supplemental charge required before use. Optional charging way as below:  
 1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.  
 2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.  
 3. Charged for 8-10 hours at limited current 0.05CA.
- C** Supplemental charge may often fail to recover the capacity. The battery should never be left standing till this is reached.

Specifications subject to change without prior notice.