

**EDC8-200 (8V 200Ah)**

**Specifications**

Nominal Voltage	8V	
Nominal Capacity(20 Hr)	200Ah	
Dimension	Length	260±1mm( 10.24 inches)
	Width	182±1mm( 7.17 inches)
	Container Height	295±1mm( 11.61 inches)
	Total Height (With terminal)	300±1mm( 11.81 inches)
Approx Weight	Approx. 38kgs (83.77 lbs)	
Design life	up to 12 years ( <i>in standby applications</i> )	
Terminal	M8	
Container Material	ABS	
Rated Capacity	200h/10.0A	(20hr, 1.75V/Cell, 25 °C/77°F)
	182Ah/18.2 A	(10hr, 1.80V/Cell, 25 °C/77°F)
	170Ah/34.0A	(5hr, 1.75V/Cell, 25 °C/77°F)
	111.2Ah/111.2A	(1hr, 1.60V/Cell, 25 °C/77°F)
Max. Discharge Current	2000A(5s)	
Internal Resistance	Appro≤3.5mΩ	
Operating Temp. Range	Discharge:	-20 °C~50 °C
	Charge:	0 °C~40 °C
	Storage:	-20 °C~50 °C
Nominal Operating Temp. Range	25±3 °C(77±5°F )	
Cycle Use	Initial Charging Current Less than 36 A. Voltage 14.4V-15.0V at 25 °C(77°F ) Temp. Coefficient-20mV/C	
Standby Use	No limit on Intital Charging Current Voltage 13.5V-13.8V at 25 °C(77°F ) Temp. Coefficient-20mV/C	
Capacity affected by Temperature	40 °C( 104°F )	103%
	25 °C( 77°F )	100%
	0 °C( 32°F )	86%
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 )**

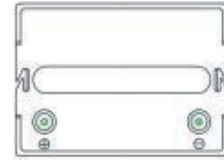
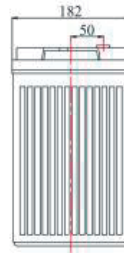
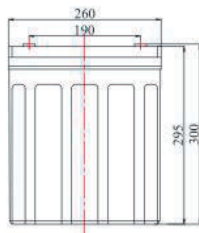
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
<b>1.60V</b>	257.4	164.4	120.8	111.2	70.6	49.6	33.6	22.2	19.80	10.60	2.40
<b>1.67V</b>	252.8	161.4	118.6	109.0	69.2	48.6	33.0	21.8	19.40	10.40	2.36
<b>1.70V</b>	248.0	158.4	116.4	107.0	68.0	47.8	32.4	21.4	19.00	10.20	2.30
<b>1.75V</b>	243.4	155.4	114.2	105.0	66.6	46.8	31.8	21.0	18.80	10.00	2.26
<b>1.80V</b>	234.0	149.4	109.8	101.0	64.0	45.0	30.6	20.2	18.20	9.90	2.22

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

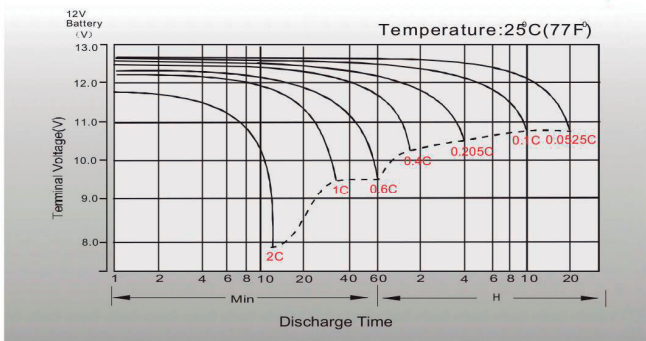
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
<b>1.60V</b>	495.4	316.4	232.6	213.4	135.6	95.2	64.8	42.6	38.2	20.7	4.62
<b>1.67V</b>	486.4	310.6	228.2	209.6	133.2	93.6	63.6	42.0	37.4	20.2	4.52
<b>1.70V</b>	477.4	304.8	224.0	205.6	130.8	91.8	62.4	41.2	36.8	20.1	4.44
<b>1.75V</b>	468.4	299.0	219.8	201.8	128.2	90.0	61.2	40.4	36.0	19.8	4.36
<b>1.80V</b>	450.4	287.6	211.4	194.0	123.4	86.6	59.0	38.8	34.6	19.2	4.28

# EDC8-200 (8V 200Ah)

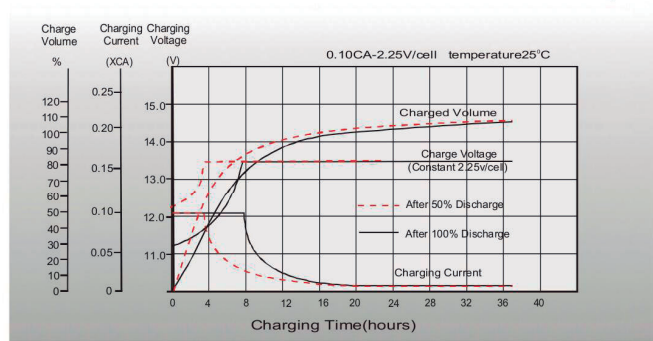
## Dimensions



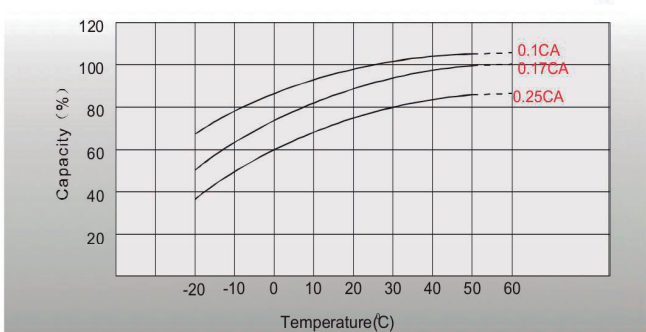
## Discharge Characteristics



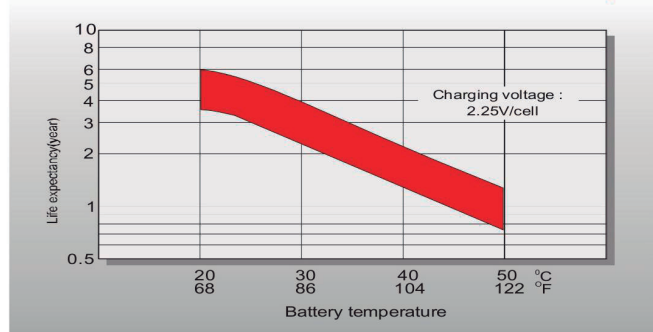
## Float Charging Characteristics



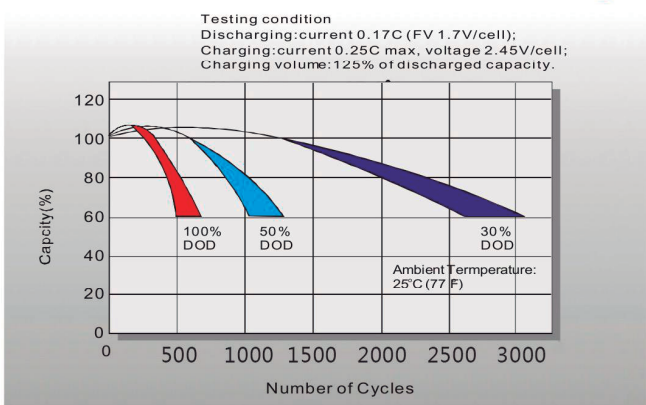
## Temperature Effects in Relation to Battery Capacity



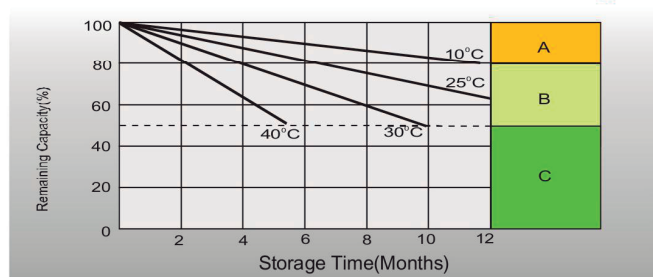
## Effect of Temperature on Long Term Float Life



## 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** Supplementary 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** Supplementary 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.