

## EDC6-400 (6V 400Ah)

### Specifications

Nominal Voltage	6V	
Nominal Capacity(20 Hr)	400Ah	
Dimension	Length	295±1mm( 11.62 inches)
	Width	178±1mm( 7.01 inches)
	Container Height	404±1mm( 15.91 inches)
	Total Height (With terminal)	424±1mm( 16.69 inches)
	Approx Weight	Approx55.5kgs(122.36 lbs)
Design life	12 years	
Terminal	DT	
Container Material	ABS	
Rated Capacity	400.0Ah/20.00A	(20hr, 1.75V/Cell, 25 °C/77°F)
	363.2Ah/36.32A	(10hr, 1.80V/Cell, 25 °C/77°F)
	320.0Ah/64.00A	(5hr, 1.75V/Cell, 25 °C/77°F)
	221.5Ah/22.15A	(1hr, 1.60V/Cell, 25 °C/77°F)
Max. Discharge Current	2000A(5s)	
Internal Resistance	Appro≤2.0mΩ	
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 45 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>	489.1	312.4	229.5	211.3	134.1	94.2	63.8	42.2	37.62	20.14	4.56
<b>1.67V</b>	480.3	306.7	225.3	207.1	131.5	92.3	62.7	41.4	36.86	19.76	4.48
<b>1.70V</b>	471.2	301.0	221.2	203.3	129.2	90.8	61.6	40.7	36.10	19.38	4.37
<b>1.75V</b>	462.5	295.3	217.0	199.5	126.5	88.9	60.4	39.9	35.72	19.00	4.29
<b>1.80V</b>	444.6	283.9	208.6	191.9	121.6	85.5	58.1	38.4	34.58	18.81	4.22

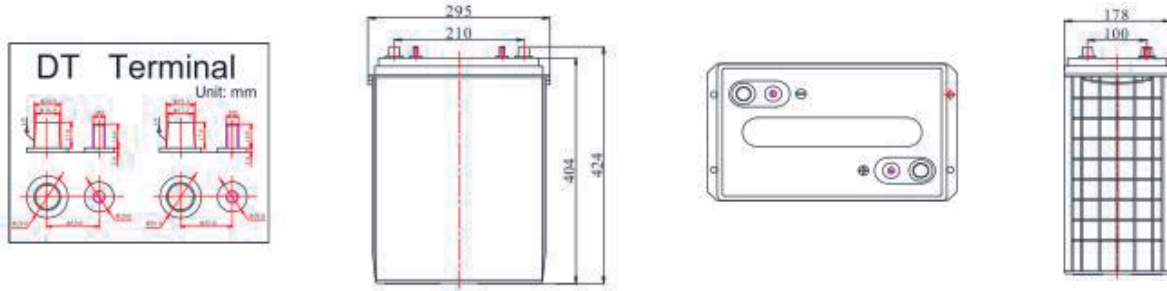
### Constant Power Discharge (Watts) at 25 °C ( 77F )

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
<b>1.60V</b>	941.3	601.2	441.9	405.5	257.6	180.9	123.1	80.9	72.6	39.3	8.78
<b>1.67V</b>	924.2	590.1	433.6	398.2	253.1	177.8	120.8	79.8	71.1	38.5	8.59
<b>1.70V</b>	907.1	579.1	425.6	390.6	248.5	174.4	118.6	78.3	69.9	38.2	8.44
<b>1.75V</b>	890.0	568.1	417.6	383.4	243.6	171.0	116.3	76.8	68.4	37.6	8.28
<b>1.80V</b>	855.8	546.4	401.7	368.6	234.5	164.5	112.1	73.7	65.7	36.5	8.13

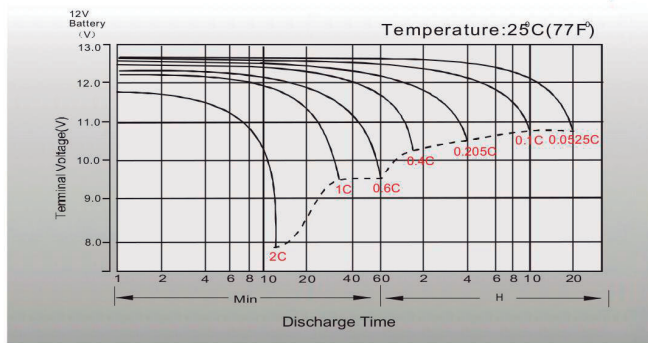
# EDC6-400 (6V 400Ah)

# Deep Cycle Batteries

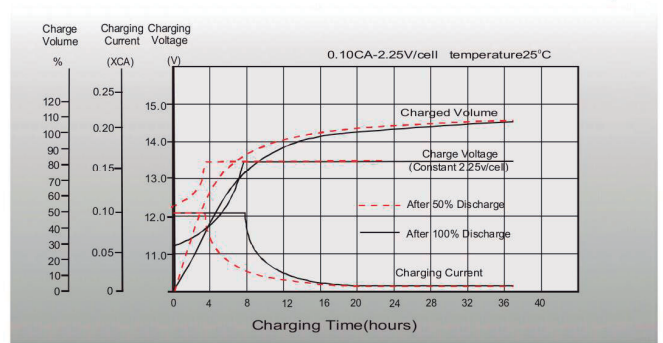
## Dimensions



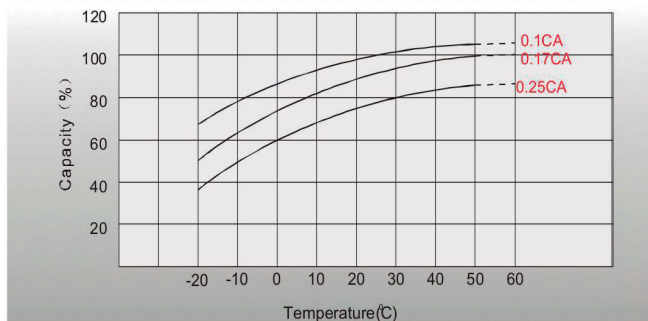
## Discharge Characteristics



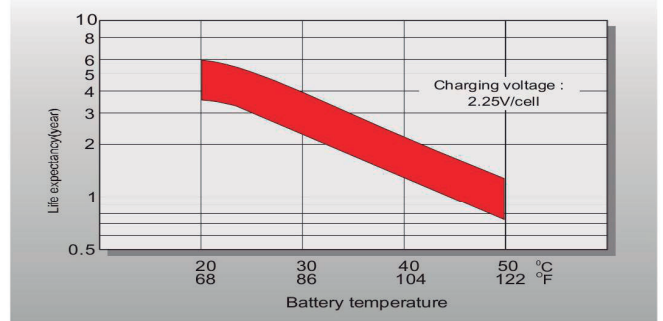
## Float Charging Characteristics



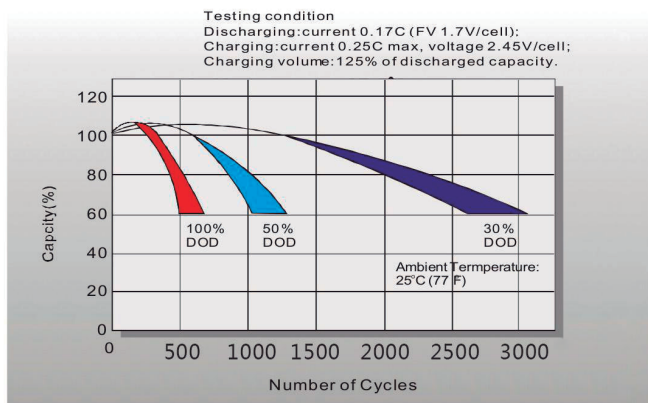
## Temperature Effects in Relation to Battery Capacity



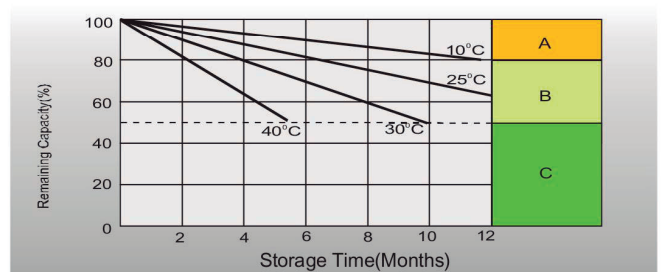
## Effect of Temperature on Long Term Float Life



## 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.