

**EDC6-450 (6V 450Ah)**

**Specifications**

Nominal Voltage	6V	
Nominal Capacity(20 Hr)	450Ah	
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	Approx 57.0kgs(125.66 lbs)
Design life	12 years	
Terminal	DT	
Container Material	ABS	
Rated Capacity	450.0Ah/22.5A	(20hr, 1.75V/Cell, 25 °C/77°F)
	409.3Ah/40.93A	(10hr, 1.80V/Cell, 25 °C/77°F)
	345.0Ah/69.00A	(5hr, 1.75V/Cell, 25 °C/77°F)
	249.6Ah/249.6A	(1hr, 1.60V/Cell, 25 °C/77°F)
Max. Discharge Current	2000A(5s)	
Internal Resistance	Appro ≤1.9mΩ	
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 75.6 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 at 25 °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 security system
- ◆ Electronic apparatus & equipment
- ◆ Communication power supply
- ◆ DC power supply
- ◆ Auto control system

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

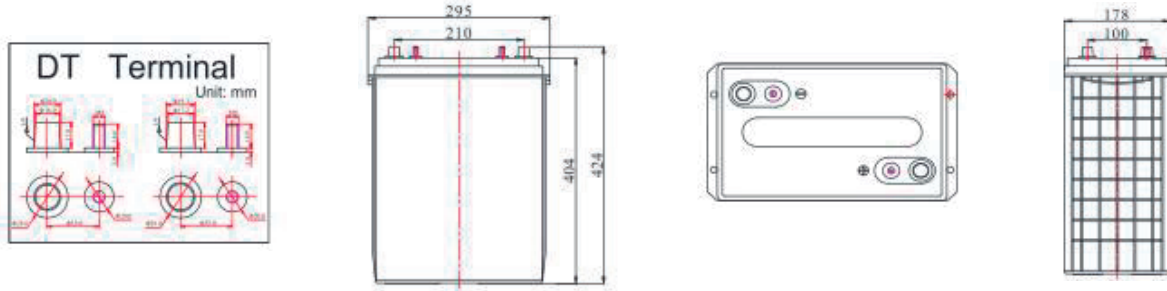
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
<b>1.60V</b>	540.5	345.2	253.7	233.5	148.3	104.2	70.6	46.6	41.58	22.26	5.04
<b>1.67V</b>	530.9	338.9	249.1	228.9	145.3	102.1	69.3	45.8	40.74	21.84	4.96
<b>1.70V</b>	520.8	332.6	244.4	224.7	142.8	100.4	68.0	44.9	39.90	21.42	4.83
<b>1.75V</b>	511.1	326.3	239.8	220.5	139.9	98.3	66.8	44.1	39.48	21.00	4.75
<b>1.80V</b>	491.4	313.7	230.6	212.1	134.4	94.5	64.3	42.4	38.22	20.79	4.66

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

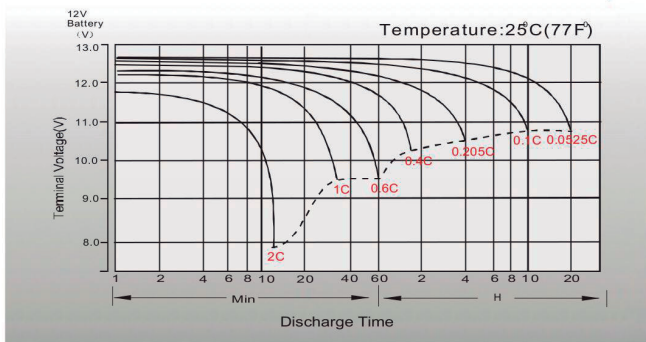
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
<b>1.60V</b>	1040.3	664.4	488.5	448.1	284.8	199.9	136.1	89.5	80.2	43.4	9.70
<b>1.67V</b>	1021.4	652.3	479.2	440.2	279.7	196.6	133.6	88.2	78.5	42.5	9.49
<b>1.70V</b>	1002.5	640.1	470.4	431.8	274.7	192.8	131.0	86.5	77.3	42.2	9.32
<b>1.75V</b>	983.6	627.9	461.6	423.8	269.2	189.0	128.5	84.8	75.6	41.6	9.16
<b>1.80V</b>	945.8	604.0	443.9	407.4	259.1	181.9	123.9	81.5	72.7	40.3	8.99

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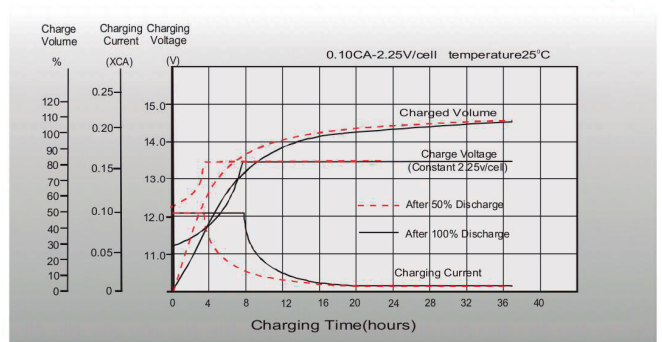
Dimensions



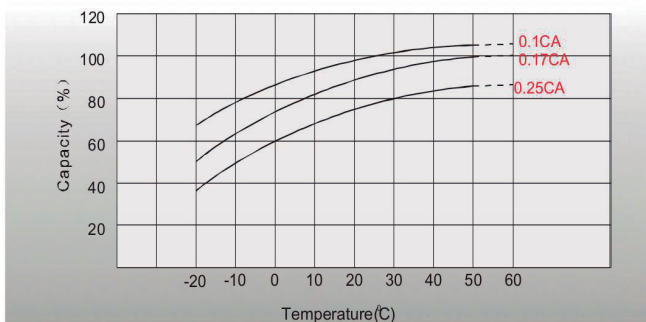
Discharge Characteristics



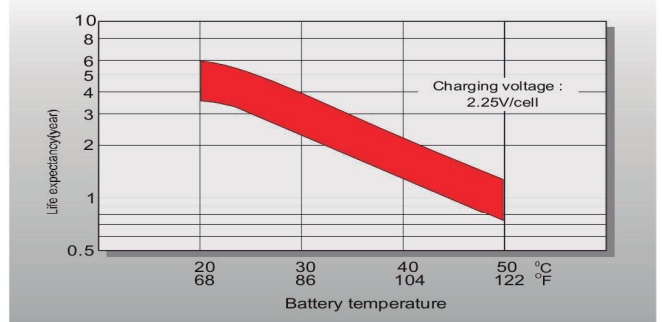
Float Charging Characteristics



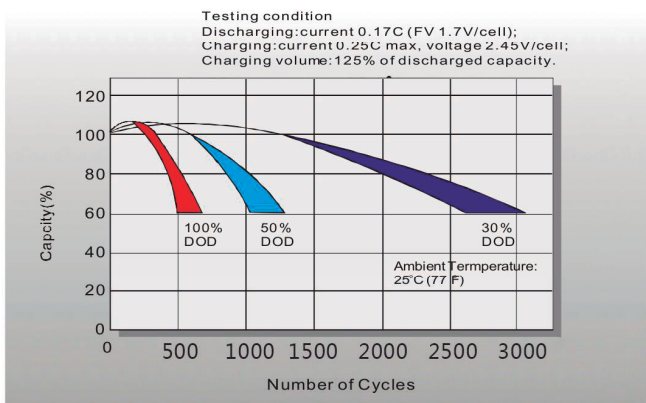
Temperature Effects in Relation to Battery Capacity



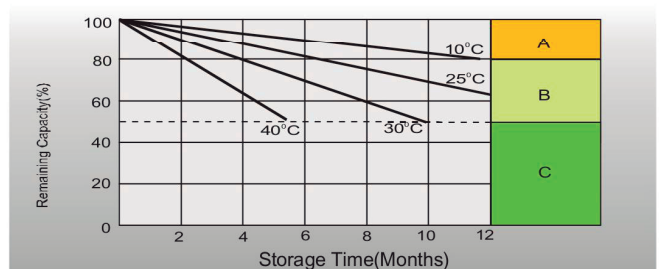
Effect of Temperature on Long Term Float Life



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.