

## EDC2-300 (2V 300Ah)

### Specifications

Nominal Voltage	2V	
Nominal Capacity(10 Hr)	300Ah	
Dimension	Length	171±1mm( 6.73 inches)
	Width	151±1mm( 5.94 inches)
	Containeriner Height	330±1mm( 12.99 inches)
	Total Height (With terminal)	365±1mm( 14.37 inches)
	Approx Weight	Approx18.5kgs(40.79lbs)
Design life	15 years	
Terminal	M8	
Container Material	ABS	
Rated Capacity	318.0Ah/15.9A	(20hr, 1.75V/Cell, 25 °C/77°F)
	300.0Ah/30.0A	(10hr, 1.80V/Cell, 25 °C/77°F)
	264.0Ah/52.8A	(5hr, 1.75V/Cell, 25 °C/77°F)
	192.3Ah/192.3A	(1hr, 1.60V/Cell, 25 °C/77°F)
Max. Discharge Current	1500A(5s)	
Internal Resistance	Appro≤0.65mΩ	
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 45.0 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 )

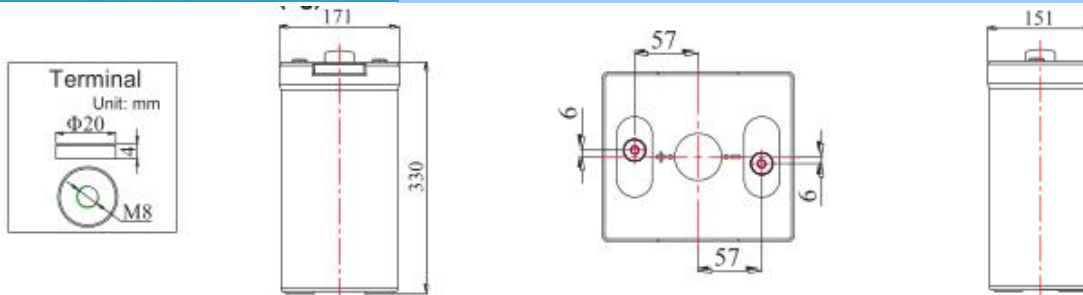
F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	318.9	241.5	192.3	112.5	85.8	66.6	55.8	48.6	39.0	31.5	16.65
1.65V	302.1	232.2	186.0	108.9	83.1	65.1	54.9	47.7	38.7	30.9	16.50
1.70V	293.4	223.8	180.9	105.9	81.0	63.6	53.7	46.8	38.1	30.6	16.32
1.75V	280.5	213.9	174.3	103.2	79.2	62.1	52.8	45.9	37.8	30.3	16.17
1.80V	270.3	206.1	168.3	99.3	76.8	60.6	51.6	45.0	36.6	30.0	15.90

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

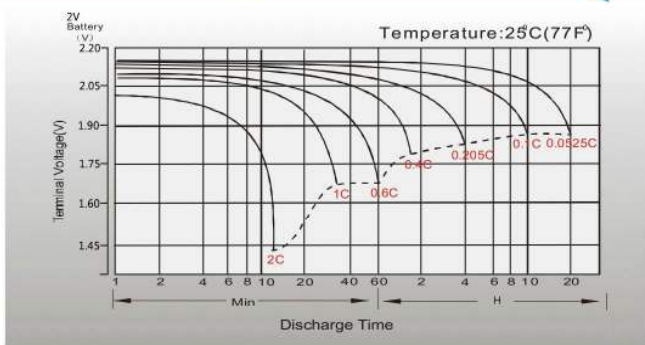
F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	615.3	458.7	370.2	213.3	164.1	127.8	107.7	93.9	76.8	61.5	32.7
1.65V	587.7	443.1	360.3	207.6	159.9	125.4	105.9	92.4	76.2	60.9	32.1
1.70V	562.8	429.0	348.0	202.8	156.3	123.0	104.4	91.2	75.0	60.3	31.8
1.75V	534.9	411.9	335.4	198.0	153.3	120.3	102.9	89.7	73.2	59.7	31.5
1.80V	512.4	398.1	324.6	191.4	149.1	117.6	100.8	88.2	71.7	59.4	31.2

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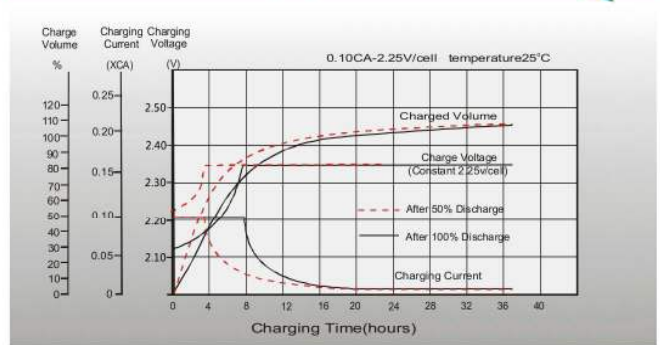
## Dimensions



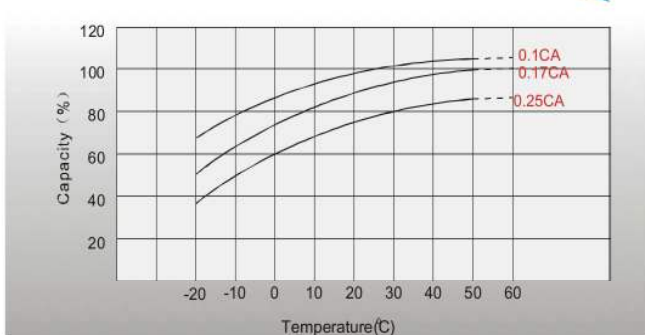
## Discharge Characteristics



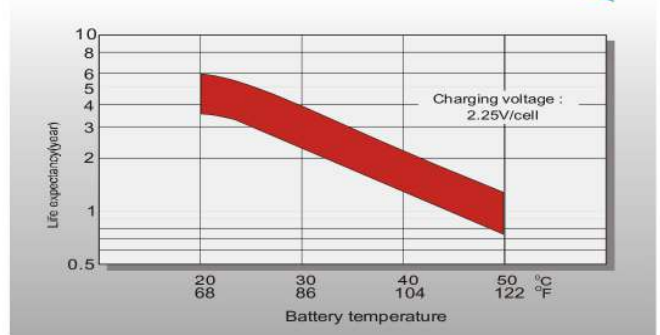
## Float Charging Characteristics



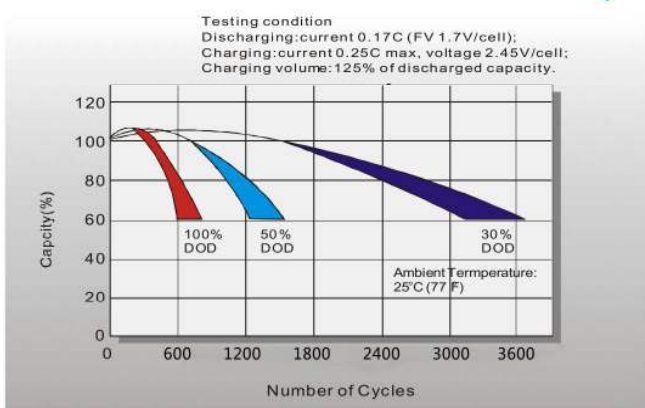
## Temperature Effects in Relation to Battery Capacity



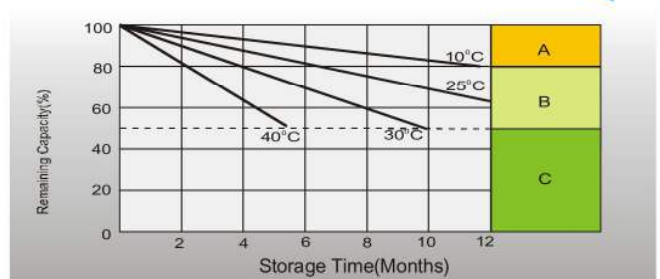
## Effect of Temperature on Long Term Float Life



## 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** 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.