

## EDC12-150 (12V 160Ah)

### Specifications

Nominal Voltage	12V	
Nominal Capacity(20 Hr)	160Ah	
Dimension	Length	484±1mm( 19.06 inches)
	Width	171±1mm( 6.73 inches)
	Container Height	241±1mm( 9.49 inches)
	Total Height (With terminal)	241±1mm( 9.49 inches)
Approx Weight	Approx. 45.5kgs (100.31 lbs)	
Design life	12 years	
Terminal	M8	
Container Material	ABS	
Rated Capacity	160.0Ah/8.00A	(20hr, 1.75V/Cell, 25 °C/77°F)
	146.5Ah/14.65A	(10hr, 1.80V/Cell, 25 °C/77°F)
	125.0Ah/25.00A	(5hr, 1.75V/Cell, 25 °C/77°F)
	83.4Ah/83.4A	(1hr, 1.60V/Cell, 25 °C/77°F)
Max. Discharge Current	1600A(5s)	
Internal Resistance	Appro≤4.0mΩ	
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 27.0A. 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>	193.1	123.3	90.6	83.4	53.0	37.2	25.2	16.7	14.85	7.95	1.80
<b>1.67V</b>	189.6	121.1	89.0	81.8	51.9	36.5	24.8	16.4	14.55	7.80	1.77
<b>1.70V</b>	186.0	118.8	87.3	80.3	51.0	35.9	24.3	16.1	14.25	7.65	1.73
<b>1.75V</b>	182.6	116.6	85.7	78.8	50.0	35.1	23.9	15.8	14.10	7.50	1.70
<b>1.80V</b>	175.5	112.1	82.4	75.8	48.0	33.8	23.0	15.2	13.65	7.43	1.67

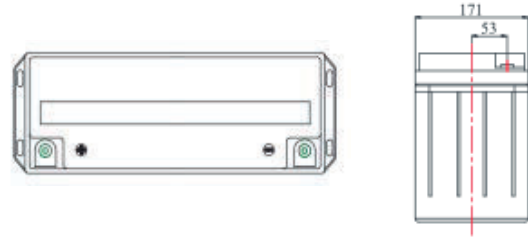
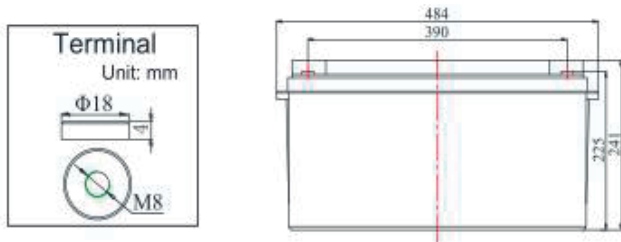
### Constant Power Discharge (Watts) at 25 °C ( 77F )

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
<b>1.60V</b>	371.6	237.3	174.5	160.1	101.7	71.4	48.6	32.0	28.7	15.5	3.47
<b>1.67V</b>	364.8	233.0	171.2	157.2	99.9	70.2	47.7	31.5	28.1	15.2	3.39
<b>1.70V</b>	358.1	228.6	168.0	154.2	98.1	68.9	46.8	30.9	27.6	15.1	3.33
<b>1.75V</b>	351.3	224.3	164.9	151.4	96.2	67.5	45.9	30.3	27.0	14.9	3.27
<b>1.80V</b>	337.8	215.7	158.6	145.5	92.6	65.0	44.3	29.1	26.0	14.4	3.21

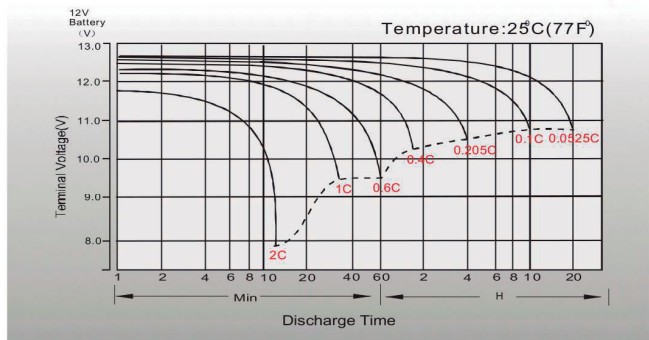
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## Deep Cycle Batteries

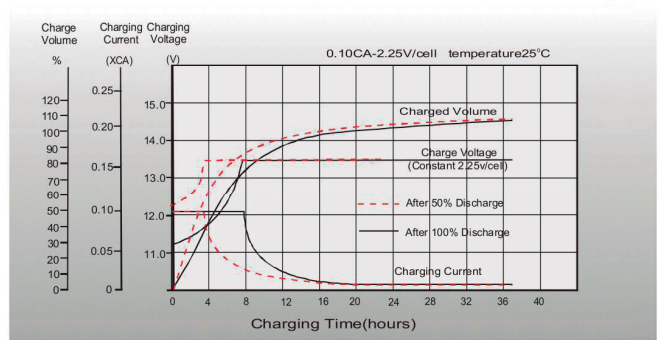
### Dimensions



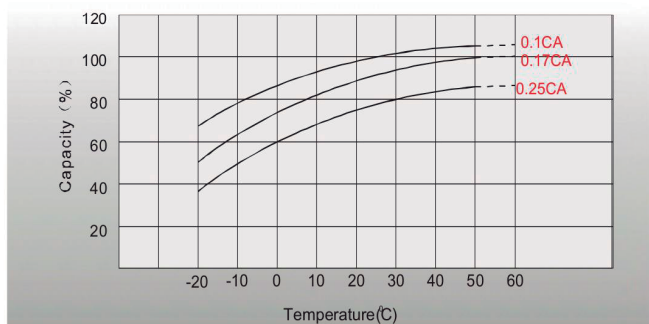
### Discharge Characteristics



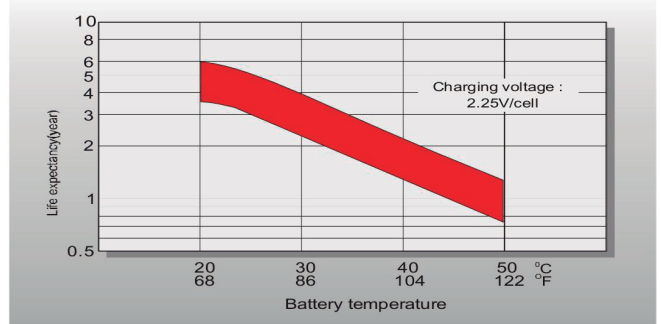
### Float Charging Characteristics



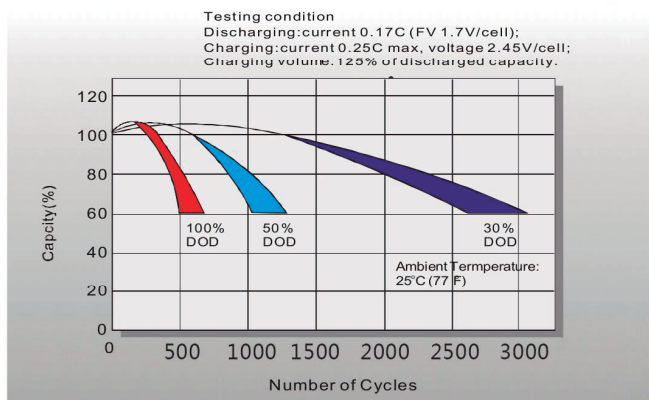
### Temperature Effects in Relation to Battery Capacity



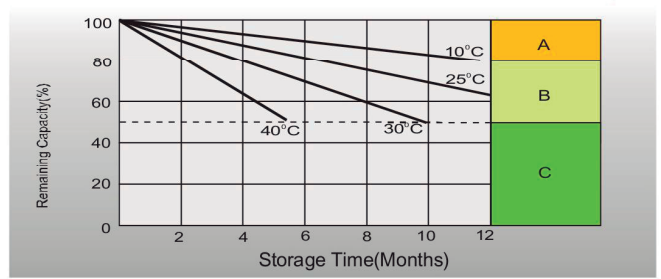
### Effect of Temperature on Long Term Float Life



### 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.