

## EDC6-245 (6V 245Ah)

### Specifications

Nominal Voltage	6V	
Nominal Capacity(20 Hr)	245Ah	
Dimension	Length	243±1mm( 9.57 inches)
	Width	187±1mm( 7.36 inches)
	Container Height	275±1mm( 10.83 inches)
	Total Height (With terminal)	275±1mm(10.83 inches)
	Approx Weight	Approx30.5kgs(67.24 lbs)
Design life	12 years (in standby applications)	
Terminal	M8/AP	
Container Material	ABS	
Rated Capacity	245.0Ah/12.25A	(20hr, 1.75V/Cell, 25 °C/77°F)
	227.5Ah/22.75A	(10hr, 1.80V/Cell, 25 °C/77°F)
	200.0Ah/40.00A	(5hr, 1.75V/Cell, 25 °C/77°F)
	139.0Ah/139.0A	(1hr, 1.60V/Cell, 25 °C/77°F)
Max. Discharge Current	2000A(5s)	
Internal Resistance	Appro≤2.5mΩ	
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 45.0 A. Voltage 7.2V-7.45V at 25°C (77°F). Temp. coefficient -20mV/C	
	No limit on Intital Charging Current Voltage 6.8V-6.9V at 25°C (77°F) Temp. Coefficient -20mV/C	
Standby Use	40 °C( 104°F ) 103%	
Capacity affected by Temperature	25 °C( 77°F ) 100%	
	0 °C( 32°F ) 86%	
	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 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
1.60V	321.8	205.5	151.0	139.0	88.3	62.0	42.0	27.8	24.75	13.25	3.00
1.67V	316.0	201.8	148.3	136.3	86.5	60.8	41.3	27.3	24.25	13.00	2.95
1.70V	310.0	198.0	145.5	133.8	85.0	59.8	40.5	26.8	23.75	12.75	2.88
1.75V	304.3	194.3	142.8	131.3	83.3	58.5	39.8	26.3	23.50	12.50	2.83
1.80V	292.5	186.8	137.3	126.3	80.0	56.3	38.3	25.3	22.75	12.38	2.78

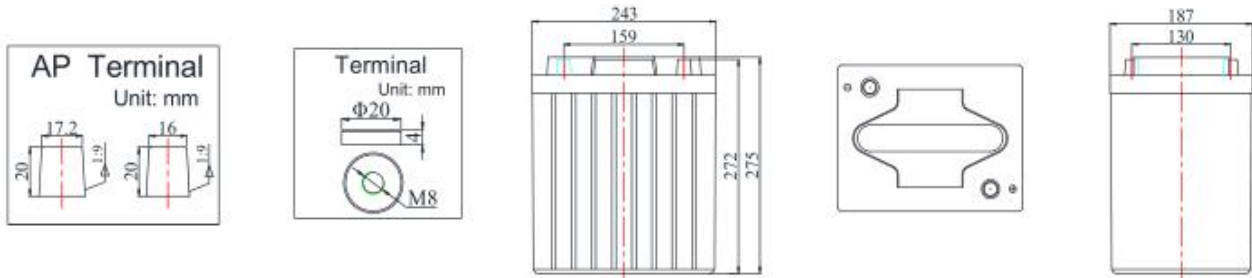
### Constant Power Discharge (Watts) at 25 °C ( 77F )

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
1.60V	619.3	395.5	290.8	266.8	169.5	119.0	81.0	53.3	47.8	25.9	5.78
1.67V	608.0	388.3	285.3	262.0	166.5	117.0	79.5	52.5	46.8	25.3	5.65
1.70V	596.8	381.0	280.0	257.0	163.5	114.8	78.0	51.5	46.0	25.1	5.55
1.75V	585.5	373.8	274.8	252.3	160.3	112.5	76.5	50.5	45.0	24.8	5.45
1.80V	563.0	359.5	264.3	242.5	154.3	108.3	73.8	48.5	43.3	24.0	5.35

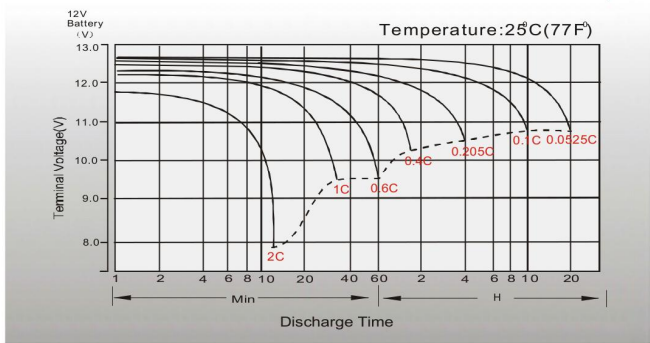
# EDC6-245 (6V 245Ah)

# Deep Cycle Batteries

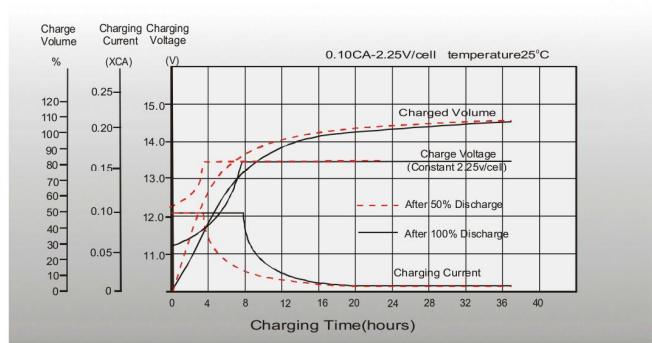
## Dimensions



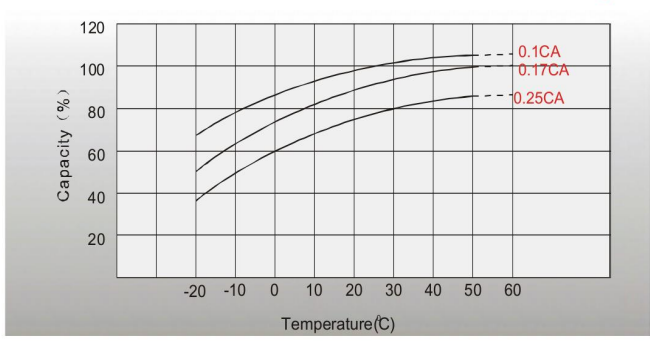
## Discharge Characteristics



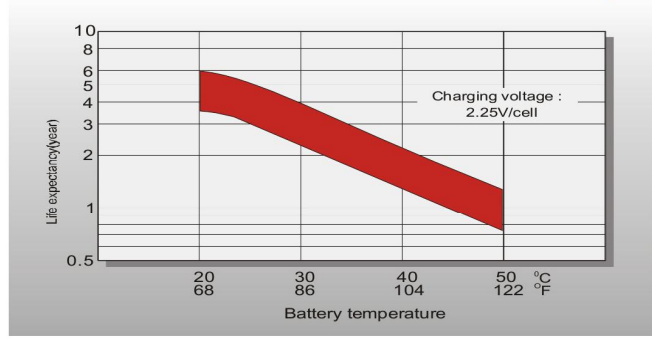
## Float Charging Characteristics



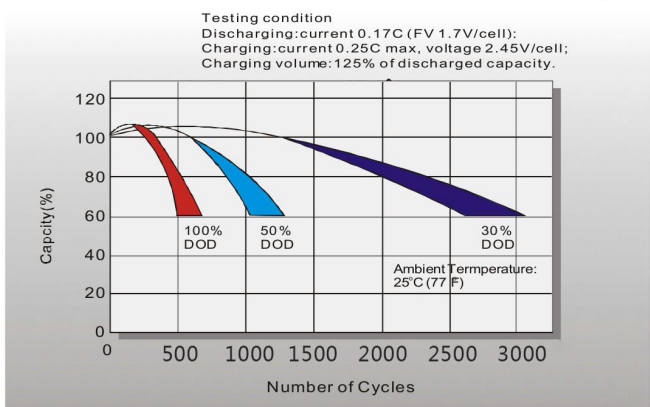
## Temperature Effects in Relation to Battery Capacity



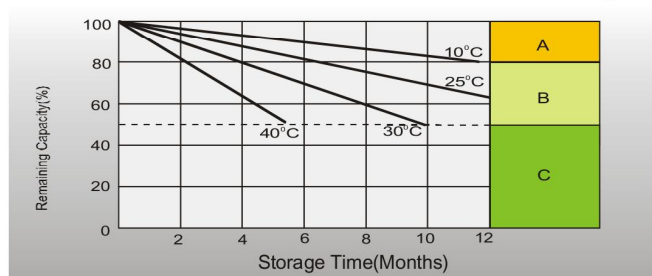
## Effect of Temperature on Long Term Float Life



## 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.