



Deep Cycle Batteries

EDC2-100 (2V 100Ah)

Specifications

Nominal Voltage	2V	
Nominal Capacity(10 Hr)	100Ah	
Dimension	Length	171±1mm(6.73 inches)
	Width	72±1mm(2.83 inches)
	Containeriner Height	205±1mm(8.07 inches)
	Total Height (With terminal)	222±1mm(8.74 inches)
Approx Weight	Approx5.8kgs(12.79lbs)	
Design life	15 years	
Terminal	M8	
Container Material	ABS	
Rated Capacity	106.0Ah/5.3A	(20hr, 1.75V/Cell, 25 °C/77°F)
	100.0h/10.0A	(10hr, 1.80V/Cell, 25 °C/77°F)
	88.0Ah/17.6A	(5hr, 1.75V/Cell, 25 °C/77°F)
	64.1Ah/64.1A	(1hr, 1.60V/Cell, 25 °C/77°F)
Max. Discharge Current	500A(5s)	
Internal Resistance	Appro≤1.6mΩ	
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 15.0 A. Voltage 2.33V-2.37V at 25 °C(77°F) Temp. Coefficient-20mV/C	
	No limit on Intital Charging Current Voltage 2.23V-2.27V at 25 °C(77°F) Temp. Coefficient-20mV/C	
Standby Use		
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)

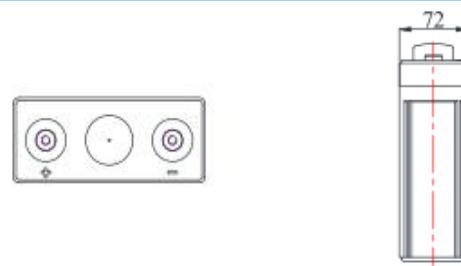
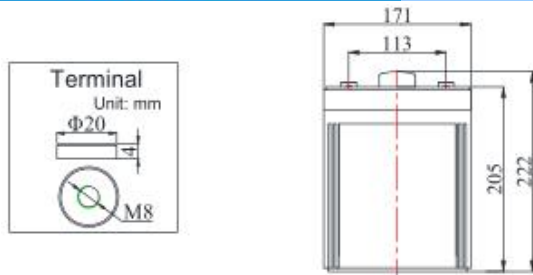
F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	106.3	80.5	64.1	37.5	28.6	22.2	18.6	16.2	13.0	10.5	5.55
1.65V	100.7	77.4	62.0	36.3	27.7	21.7	18.3	15.9	12.9	10.3	5.50
1.70V	97.8	74.6	60.3	35.3	27.0	21.2	17.9	15.6	12.7	10.2	5.44
1.75V	93.5	71.3	58.1	34.4	26.4	20.7	17.6	15.3	12.6	10.1	5.39
1.80V	90.1	68.7	56.1	33.1	25.6	20.2	17.2	15.0	12.2	10.0	5.30

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

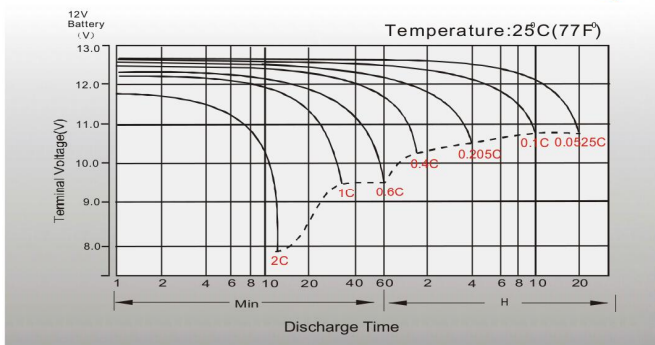
F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	205.1	152.9	123.4	71.1	54.7	42.6	35.9	31.3	25.6	20.5	10.9
1.65V	195.9	147.7	120.1	69.2	53.3	41.8	35.3	30.8	25.4	20.3	10.7
1.70V	187.6	143.0	116.0	67.6	52.1	41.0	34.8	30.4	25.0	20.1	10.6
1.75V	178.3	137.3	111.8	66.0	51.1	40.1	34.3	29.9	24.4	19.9	10.5
1.80V	170.8	132.7	108.2	63.8	49.7	39.2	33.6	29.4	23.9	19.8	10.4

EDC2-100 (2V 100Ah)

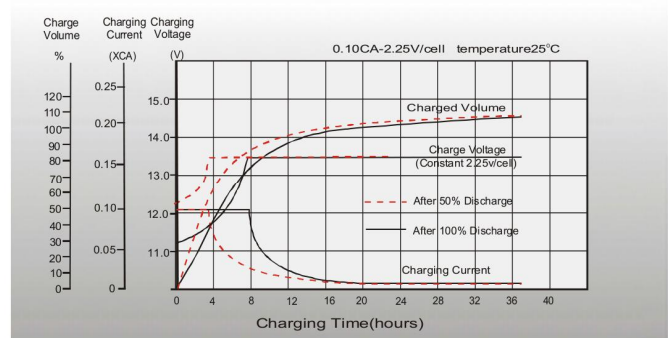
Dimensions



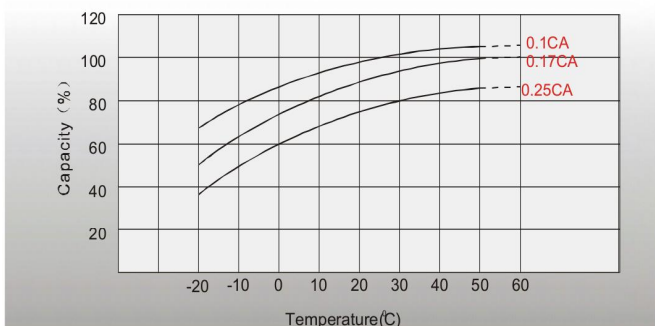
Discharge Characteristics



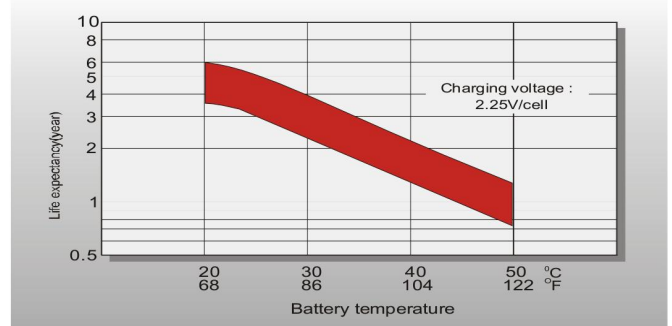
Float Charging Characteristics



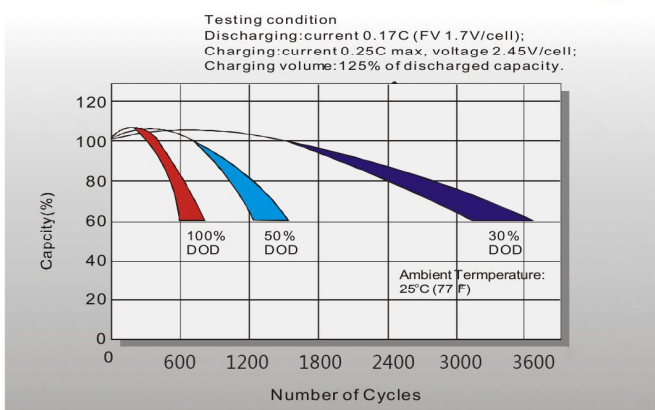
Temperature Effects in Relation to Battery Capacity



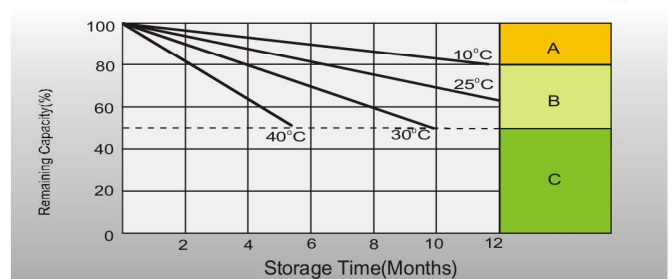
Effect of Temperature on Long Term Float Life



Cycle life in Relation to Depth of Discharge



Self-discharge Characteristics



Specifications subject to change without prior notice.