

EDC2-800 (2V 800Ah)

Specifications

Nominal Voltage	2V	
Nominal Capacity(10 Hr)	800Ah	
Dimension	Length	410±1mm(16.14 inches)
	Width	176±1mm(6.93 inches)
	Containeriner Height	330±1mm(12.99 inches)
	Total Height (With terminal)	365±1mm(14.37 inches)
Approx Weight	Approx 51.6kgs(113.75lbs)	
Design life	15 years	
Terminal	M8	
Container Material	ABS	
Rated Capacity	848.0Ah/42.4A	(20hr, 1.75V/Cell, 25 °C/77°F)
	800.0h/80.0A	(10hr, 1.80V/Cell, 25 °C/77°F)
	704.0Ah/140.8A	(5hr, 1.75V/Cell, 25 °C/77°F)
	512.8Ah/512.8A	(1hr, 1.60V/Cell, 25 °C/77°F)
Max. Discharge Current	4000A(5s)	
Internal Resistance	Appro ≤0.40mΩ	
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 120.0 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)	102%
	25 °C(77°F)	100%
	0 °C(32°F)	85%
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 (77°F)

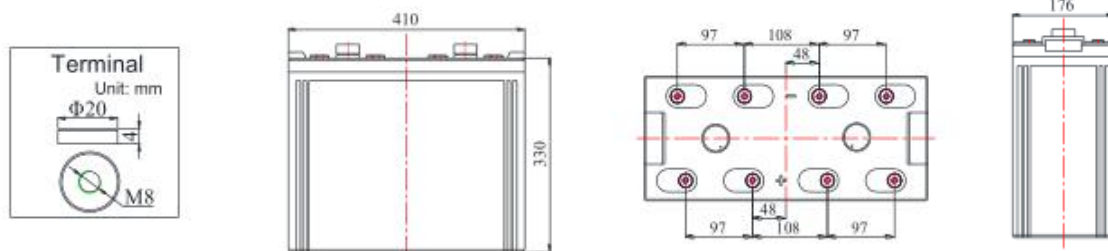
F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	850.4	644.0	512.8	300.0	228.8	177.6	148.8	129.6	104.0	84.0	44.40
1.65V	805.6	619.2	496.0	290.4	221.6	173.6	146.4	127.2	103.2	82.4	44.00
1.70V	782.4	596.8	482.4	282.4	216.0	169.6	143.2	124.8	101.6	81.6	43.52
1.75V	748.0	570.4	464.8	275.2	211.2	165.6	140.8	122.4	100.8	80.8	43.12
1.80V	720.8	549.6	448.8	264.8	204.8	161.6	137.6	120.0	97.6	80.0	42.40

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

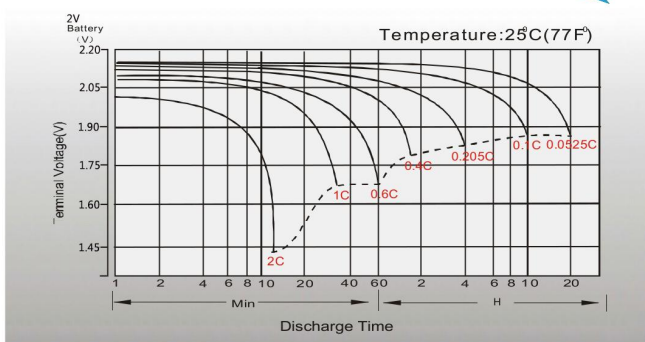
F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	1640.8	1223.2	987.2	568.8	437.6	340.8	287.2	250.4	204.8	164.0	87.2
1.65V	1567.2	1181.6	960.8	553.6	426.4	334.4	282.4	246.4	203.2	162.4	85.6
1.70V	1500.8	1144.0	928.0	540.8	416.8	328.0	278.4	243.2	200.0	160.8	84.8
1.75V	1426.4	1098.4	894.4	528.0	408.8	320.8	274.4	239.2	195.2	159.2	84.0
1.80V	1366.4	1061.6	865.6	510.4	397.6	313.6	268.8	235.2	191.2	158.4	83.2

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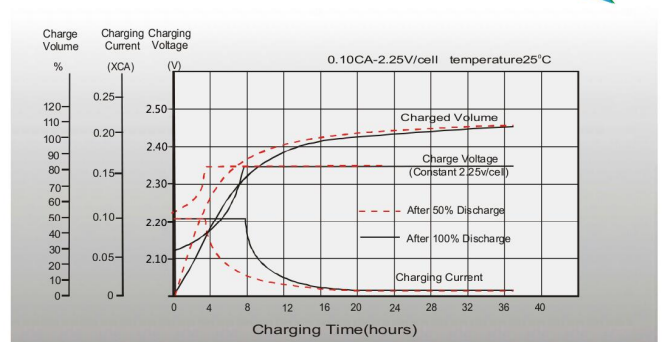
Dimensions



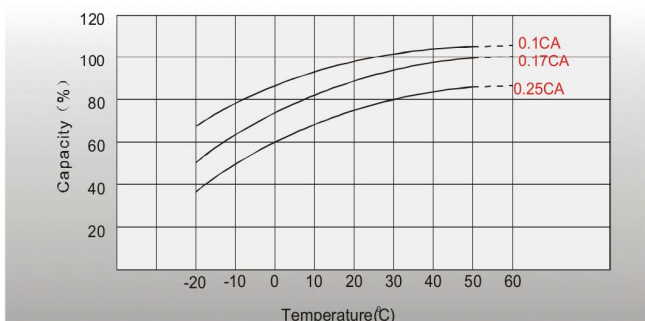
Discharge Characteristics



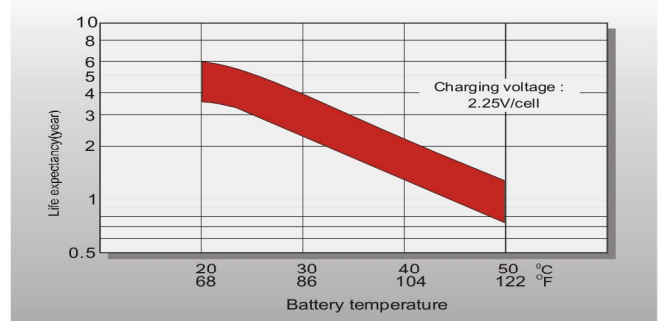
Float Charging Characteristics



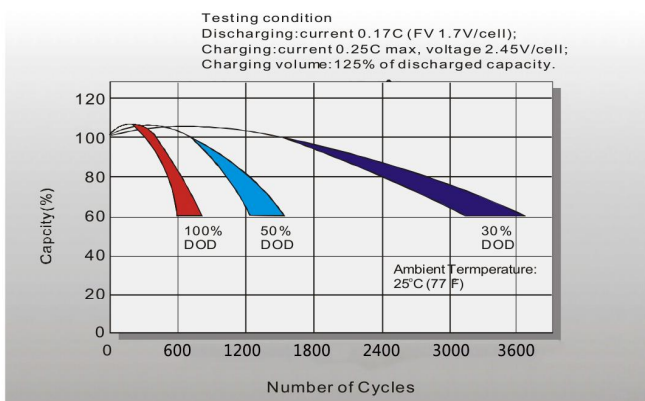
Temperature Effects in Relation to Battery Capacity



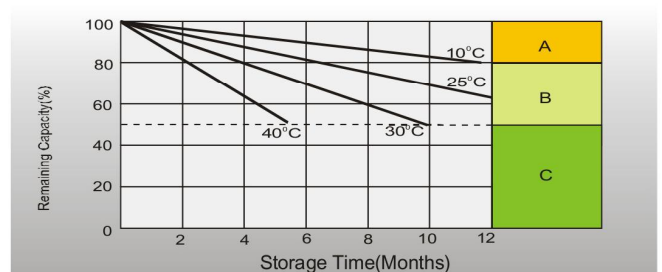
Effect of Temperature on Long Term Float Life



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.