

EDC2-600 (2V 600Ah)

Specifications

Nominal Voltage	2V	
Nominal Capacity(10 Hr)	600Ah	
Dimension	Length	301±1mm(11.85 inches)
	Width	175±1mm(6.89 inches)
	Containeriner Height	331±1mm(13.03 inches)
	Total Height (With terminal)	366±1mm(14.41 inches)
	Approx Weight	Approx37.7kgs(83.11lbs)
Design life	15 years	
Terminal	M8	
Container Material	ABS	
Rated Capacity	636.0Ah/31.8A	(20hr, 1.75V/Cell, 25 °C/77°F)
	600.0Ah/60.0A	(10hr, 1.80V/Cell, 25 °C/77°F)
	528.0Ah/105.6A	(5hr, 1.75V/Cell, 25 °C/77°F)
	384.6Ah/384.6A	(1hr, 1.60V/Cell, 25 °C/77°F)
Max. Discharge Current	3000A(5s)	
Internal Resistance	Appro≤0.50mΩ	
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 90.0 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 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)

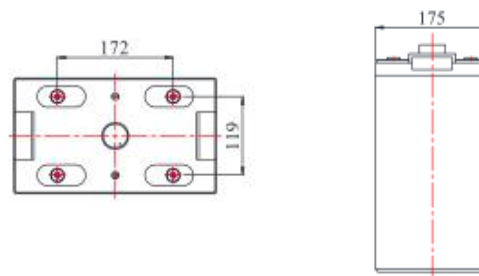
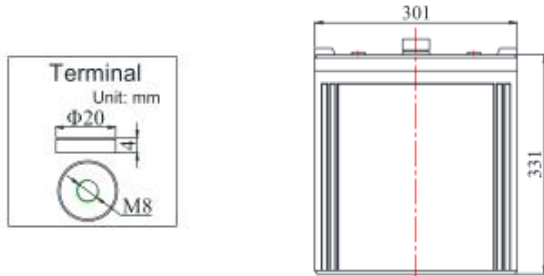
F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	637.8	483.0	384.6	225.0	171.6	133.2	111.6	97.2	78.0	63.0	33.30
1.65V	604.2	464.4	372.0	217.8	166.2	130.2	109.8	95.4	77.4	61.8	33.00
1.70V	586.8	447.6	361.8	211.8	162.0	127.2	107.4	93.6	76.2	61.2	32.64
1.75V	561.0	427.8	348.6	206.4	158.4	124.2	105.6	91.8	75.6	60.6	32.34
1.80V	540.6	412.2	336.6	198.6	153.6	121.2	103.2	90.0	73.2	60.0	31.80

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

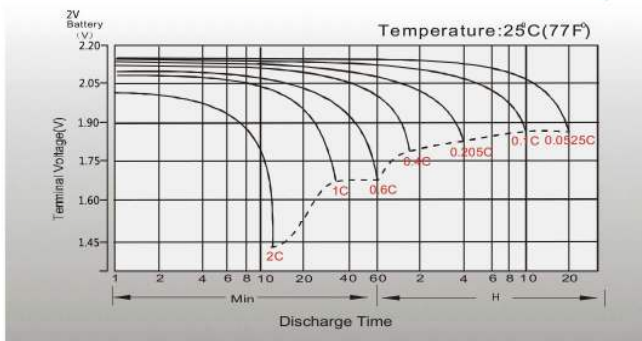
F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	1230.6	917.4	740.4	426.6	328.2	255.6	215.4	187.8	153.6	123.0	65.4
1.65V	1175.4	886.2	720.6	415.2	319.8	250.8	211.8	184.8	152.4	121.8	64.2
1.70V	1125.6	858.0	696.0	405.6	312.6	246.0	208.8	182.4	150.0	120.6	63.6
1.75V	1069.8	823.8	670.8	396.0	306.6	240.6	205.8	179.4	146.4	119.4	63.0
1.80V	1024.8	796.2	649.2	382.8	298.2	235.2	201.6	176.4	143.4	118.8	62.4

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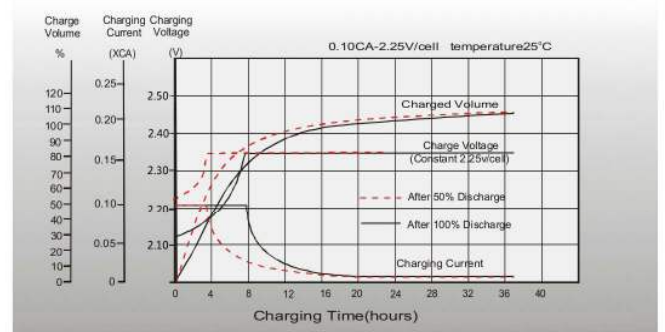
Dimensions



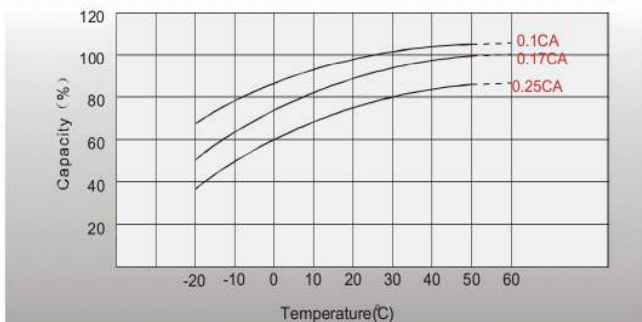
Discharge Characteristics



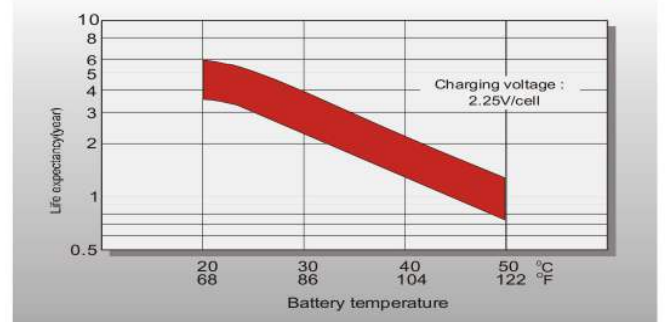
Float Charging Characteristics



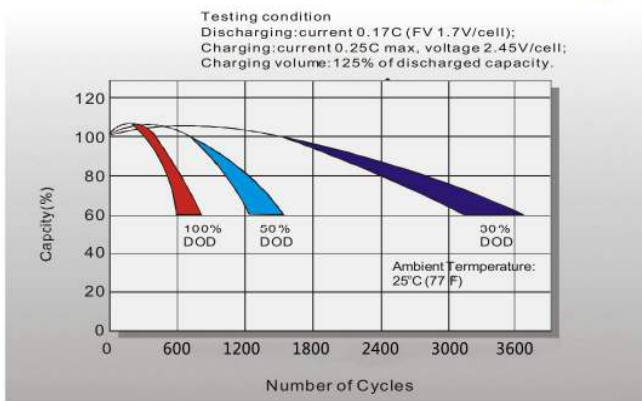
Temperature Effects in Relation to Battery Capacity



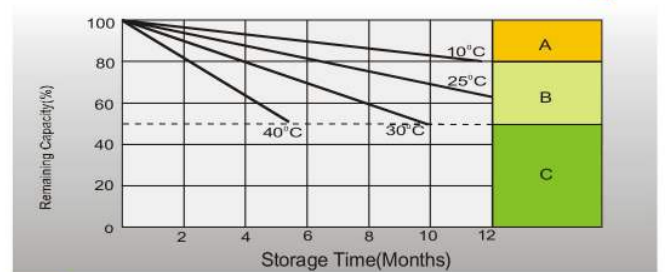
Effect of Temperature on Long Term Float Life



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.