ECLC8-200 (8V 200Ah)

Lead crystal battery

Specifications

Nominal Voltage	8V	
Nominal Capacity(20 Hr)	200Ah	
Dimension	Length	260±1mm(10.24 inches)
	Width	182±1mm(7.17 inches)
	Containeriner Height	295±1mm(11.61 inches)
	Total Height (With terminal)	300±1mm(11.81 inches)
Approx Weight	Approx38.20kgs(84.22 lbs)	
Design life	18 years	
Terminal	M8	
Container Material	ABS	
Rated Capacity	200h/10.0A	(20hr, 1.75V/Cell, 25 ℃/77℉)
	182Ah/18.2 A	(10hr, 1.80V/Cell, 25 ℃/77℉)
	170Ah/34.0A	(5hr, 1.75V/Cell, 25 ℃/77℉)
	111.2Ah/111.2A	(1hr, 1.60V/Cell, 25 ℃/77℉)
Max. Discharge Current	2000A(5s)	
Internal Resistance	Appro≤3.5mΩ	
Operating Temp. Range	Discharge: -30 ℃~60 ℃	
	Charge: -30 ℃~60 ℃	
	Storage: -30 ℃~60 ℃	
Nominal Operating Temp. Range	25±3 ℃(77±5℉)	
Cycle Use	Initial Charging Current Less than 36 A. Voltage 9.6V-9.94V at 25 ℃(77℉) Temp. Coefficient-20mV/C	
Standby Use	No limit on Intital Charging Current Voltage 9.07V-9.2V at 25 ℃(77℉) Temp. Coefficient-20mV/C	
Capacity affected by Temperature	40 ℃(104℉)	103%
	25 ℃(77℉)	100%
	0 ℃(32℉)	86%
Self Discharge	ECLC series batteries may be stored for up to 6 months at25 ℃(77℉) 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 controlsystem

Constant Current Discharge (Amperes) at 25 ℃ (77F)

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
1.60V	257.4	164.4	120.8	111.2	70.6	49.6	33.6	22.2	19.80	10.60	2.40
1.67V	252.8	161.4	118.6	109.0	69.2	48.6	33.0	21.8	19.40	10.40	2.36
1.70V	248.0	158.4	116.4	107.0	68.0	47.8	32.4	21.4	19.00	10.20	2.30
1.75V	243.4	155.4	114.2	105.0	66.6	46.8	31.8	21.0	18.80	10.00	2.26
1.80V	234.0	149.4	109.8	101.0	64.0	45.0	30.6	20.2	18.20	9.90	2.22

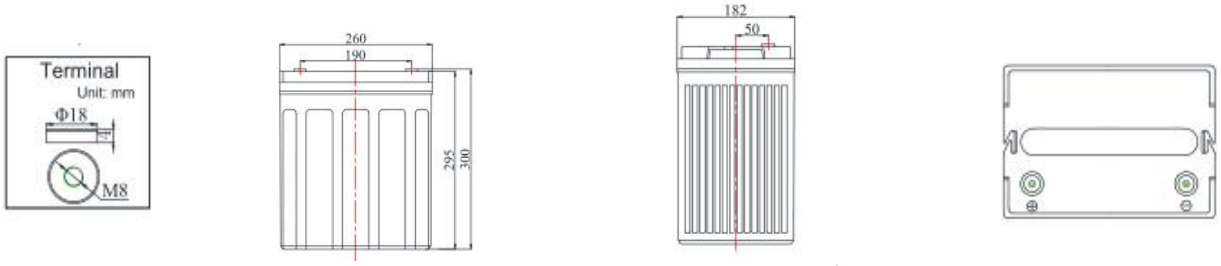
Constant Power Discharge (Watts) at 25 ℃ (77F)

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
1.60V	495.4	316.4	232.6	213.4	135.6	95.2	64.8	42.6	38.2	20.7	4.62
1.67V	486.4	310.6	228.2	209.6	133.2	93.6	63.6	42.0	37.4	20.2	4.52
1.70V	477.4	304.8	224.0	205.6	130.8	91.8	62.4	41.2	36.8	20.1	4.44
1.75V	468.4	299.0	219.8	201.8	128.2	90.0	61.2	40.4	36.0	19.8	4.36
1.80V	450.4	287.6	211.4	194.0	123.4	86.6	59.0	38.8	34.6	19.2	4.28

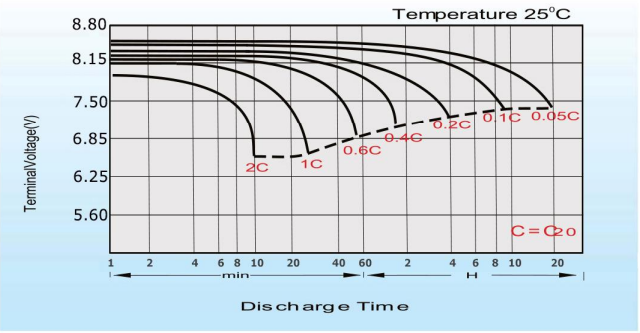
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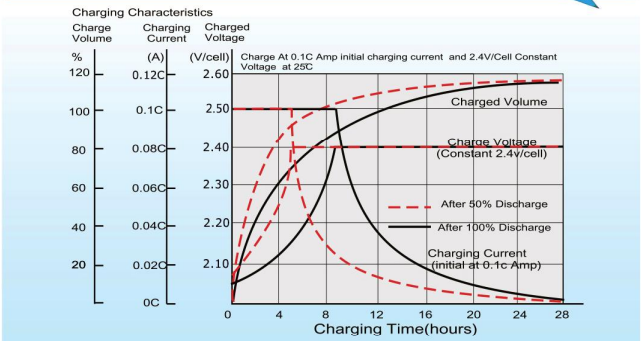
Dimensions



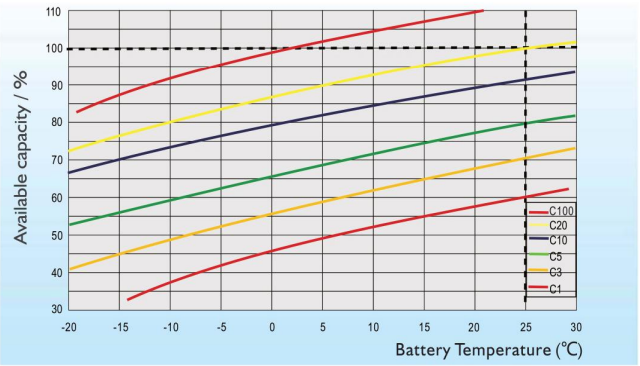
Discharge Characteristics



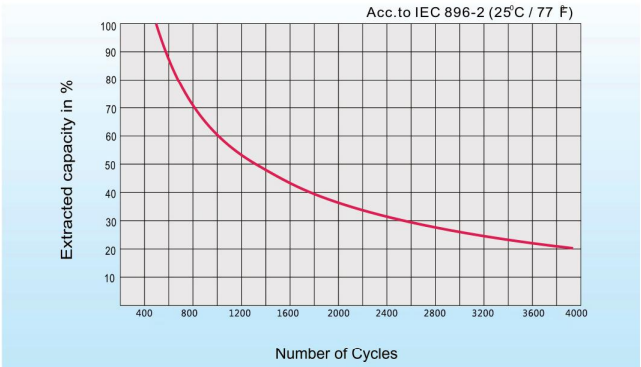
Charging Characteristics

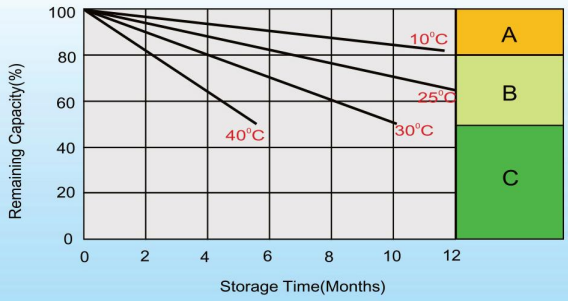


Temperature Effects in Relation to Battery Capacity



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 limted current 0.25CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limted 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.