ECLC6-450 (6V 450Ah)

Lead crystal battery

Specifications

Nominal Voltage	6V	
Nominal Capacity(20 Hr)	450Ah	
Dimension	Length	295±1mm(11.62 inches)
	Width	178±1mm(7.01 inches)
	Containeriner Height	404±1mm(15.91inches)
	Total Height (With terminal)	424±1mm(16.69 inches)
Approx Weight	Approx 57kgs(125.66 lbs)	
Design life	18 years	
Terminal	T5/DT	
Container Material	ABS	
Rated Capacity	450.0Ah/22.5A	(20hr, 1.75V/Cell, 25 ℃/77℉)
	409.6Ah/40.96A	(10hr, 1.80V/Cell, 25 ℃/77℉)
	357.85Ah/71.57A	(5hr, 1.75V/Cell, 25 ℃/77℉)
	250.07Ah/250.07A	(1hr, 1.60V/Cell, 25 ℃/77℉)
Max. Discharge Current	2000A(5s)	
Internal Resistance	Appro≤2.2mΩ	
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 75.6 A. Voltage 7.2V-7.45V at 25 ℃(77℉) Temp. Coefficient-20mV/C	
Standby Use	No limit on Intital Charging Current Voltage 6.8V-6.9V 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 12 months at25 ℃(77℉) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	



Application

- Railway and marine systems
- Electric tools
- Vehicle in place of walking
- Lawn mowers
- Golf trolleys and golf cart
- Electric toys
- Portable power
- Wheelchairs
- Medical equipments
- Solar / wind power system

ISO9001 ISO14001

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

F.V/Time	15 min	30 min	45 min	1h	2h	3h	5h	8h	10h	20h	100h
1.60V	578.86	366.81	271.71	250.07	158.83	111.60	75.61	49.91	44.53	23.84	5.40
1.67V	568.82	363.11	266.89	245.25	155.68	109.39	74.25	49.07	43.65	23.40	5.31
1.70V	558.00	356.36	261.86	240.75	153.00	107.57	72.86	48.11	42.75	22.95	5.18
1.75V	547.61	349.61	256.93	236.25	149.89	105.32	71.57	47.25	42.30	22.50	5.09
1.80V	526.62	336.18	247.13	227.30	144.03	101.27	68.91	45.44	40.96	22.28	4.99

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

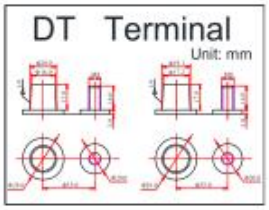
F.V/Time	15 min	30 min	45 min	1h	2h	3h	5h	8h	10h	20h	100h
1.60V	1114.14	711.56	523.17	523.17	305.01	214.09	145.76	95.85	85.89	46.48	10.39
1.67V	1094.36	698.89	513.43	471.64	299.68	210.64	143.14	94.50	84.11	45.54	10.17
1.70V	1074.11	685.82	504.00	462.64	294.32	206.57	140.36	92.68	82.82	45.21	9.99
1.75V	1053.86	672.75	494.57	454.07	288.43	202.50	137.68	90.86	81.00	44.57	9.81
1.80V	1013.58	647.29	475.71	436.60	277.67	194.94	132.78	87.34	77.91	43.19	9.63

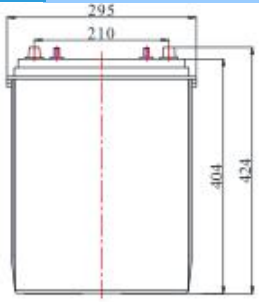
ECLC6-450 (6V 450Ah)

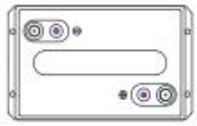
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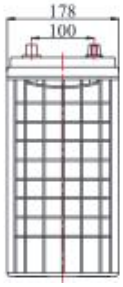
Lead crystal battery

Dimensions

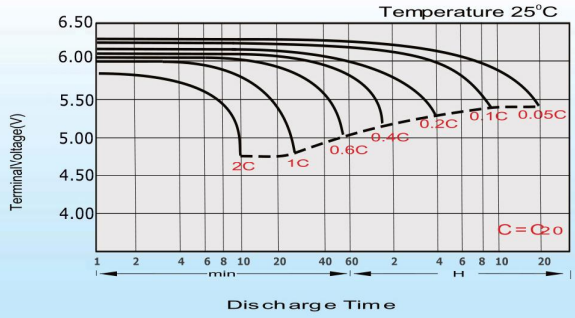




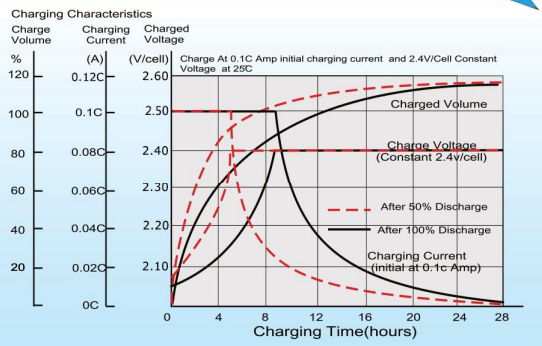




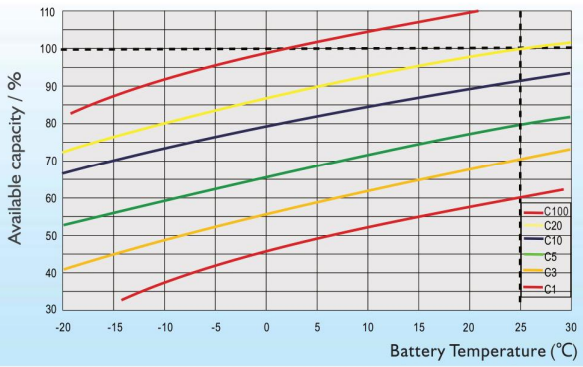
Discharge Characteristics



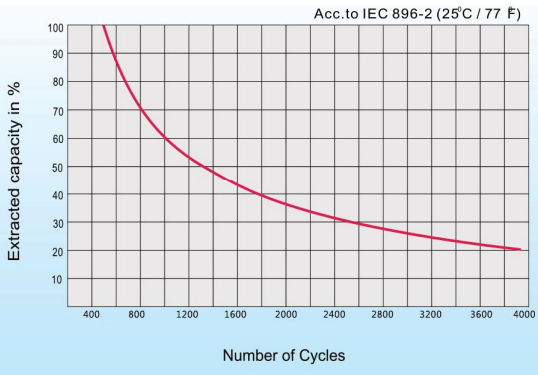
Charging Characteristics

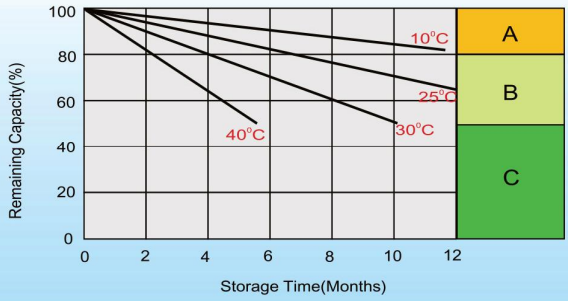


Temperature Effects in Relation to Battery Capacity



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.