ECLC12-7.2 (12V 7.2Ah)

Lead crystal battery

Specifications

Nominal Voltage	12V	
Nominal Capacity(20 Hr)	7.2Ah	
Dimension	Length	151±1mm(5.95 inches)
	Width	65±1mm(2.56 inches)
	Containeriner Height	94±1mm(3.70 inches)
	Total Height (With terminal)	100±1mm(3.94 inches)
Approx Weight	Approx. 2.13kg (4.70lbs)	
Design life	up to 8 years in standby applications	
Terminal	F1	
Container Material	ABS	
Rated Capacity	7.20Ah/0.36A	(20hr, 1.80V/Cell, 25 ℃/77℉)
	6.80Ah/0.68A	(10hr, 1.80V/Cell, 25 ℃/77℉)
	6.45Ah/1.29A	(5hr, 1.75V/Cell, 25 ℃/77℉)
	4.70Ah/4.57A	(1hr, 1.60V/Cell, 25 ℃/77℉)
Max. Discharge Current	108A(5s)	
Internal Resistance	Appro≤22mΩ	
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 2.16A. Voltage 14.4V-14.9V at 25 ℃(77℉) Temp. Coefficient-20mV/C	
Standby Use	No limit on Intital Charging Current Voltage 13.6V-13.8V 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 10 months at 25℃ (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	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	28.74	18.84	13.83	8.21	5.99	4.70	2.97	2.04	1.36	0.91	0.72	0.381
1.67V	27.38	18.06	13.54	8.07	5.89	4.55	2.92	2.00	1.34	0.89	0.71	0.373
1.70V	26.23	17.07	13.35	7.97	5.82	4.40	2.86	1.96	1.31	0.88	0.70	0.367
1.75V	25.00	16.28	12.64	7.70	5.66	4.27	2.81	1.92	1.29	0.87	0.69	0.360
1.80V	23.08	15.17	11.80	7.40	5.48	4.15	2.71	1.85	1.23	0.84	0.68	0.356

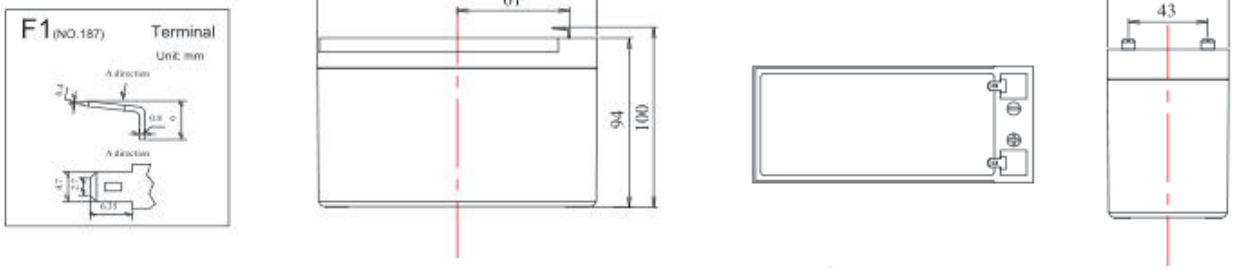
Constant Power Discharge (Watts) at 25 ℃ (77F)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	53.52	36.16	26.74	15.97	11.68	9.25	5.83	4.02	2.69	1.82	1.44	0.759
1.67V	51.28	34.70	26.23	15.75	11.53	8.93	5.73	3.94	2.64	1.79	1.43	0.748
1.70V	49.18	32.82	25.93	15.57	11.42	8.61	5.62	3.87	2.60	1.76	1.42	0.739
1.75V	47.11	31.34	24.60	15.10	11.14	8.29	5.52	3.80	2.54	1.75	1.40	0.723
1.80V	43.92	29.31	23.00	14.54	10.80	7.97	5.30	3.65	2.45	1.70	1.38	0.720

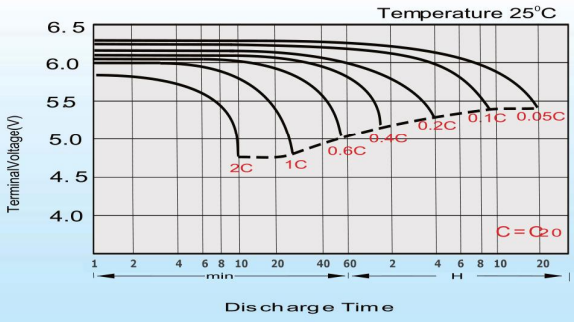
ECLC12-7.2 (12V 7.2Ah)

Lead crystal battery

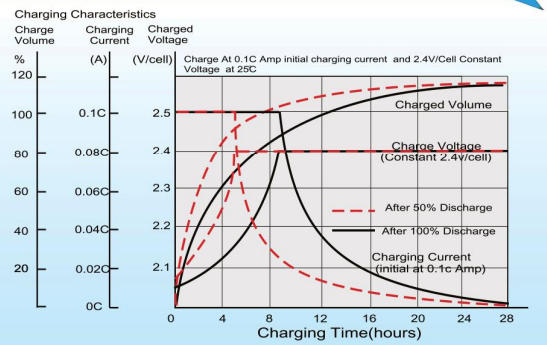
Dimensions



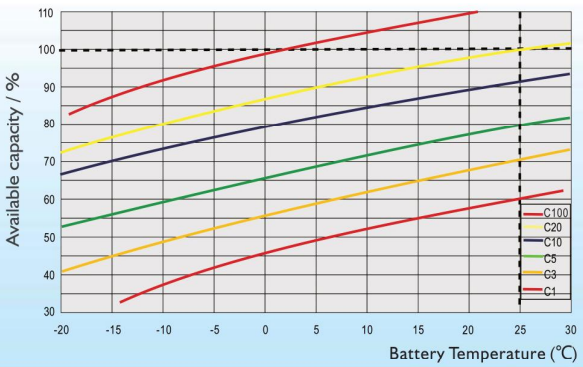
Discharge Characteristics



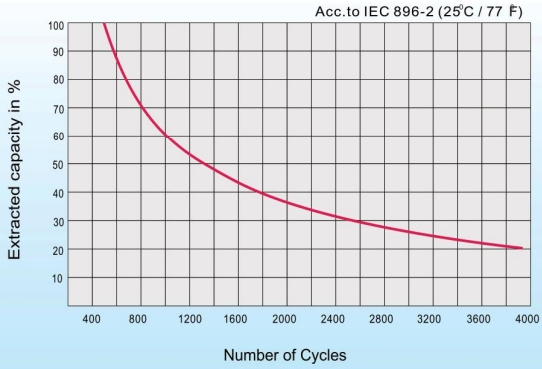
Charging Characteristics

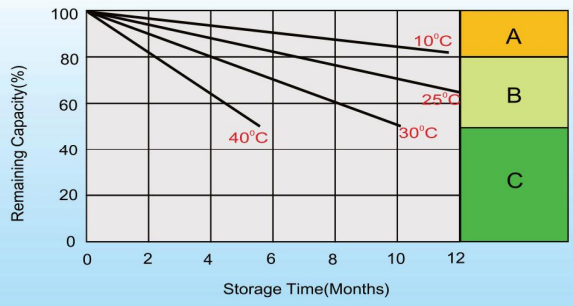


Temperature Effects in Relation to Battery Capacity



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.