

## ECLC12-110 (12V 130Ah)

### Specifications

Nominal Voltage	12V	
Nominal Capacity(20 Hr)	130Ah	
Dimension	Length	331±1mm( 13.03 inches)
	Width	176±1mm( 6.93 inches)
	Containeriner Height	215±1mm( 8.46 inches)
	Total Height (With terminal)	220±1mm( 8.66 inches)
Approx Weight	Approx33.5kgs(73.85 lbs)	
Design life	18 years	
Terminal	M8	
Container Material	ABS	
Rated Capacity	130.0Ah/6.50A	(20hr, 1.70V/Cell, 25 °C/77°F)
	115.7Ah/11.57A	(10hr, 1.80V/Cell, 25 °C/77°F)
	102.9Ah/20.59A	(5hr, 1.75V/Cell, 25 °C/77°F)
	73.4Ah/73.40A	(1hr, 1.60V/Cell, 25 °C/77°F)
Max. Discharge Current	1100A(5s)	
Internal Resistance	Appro≤5.5mΩ	
Operating Temp. Range	Discharge: -30 °C~60 °C	
	Charge: -30 °C~60 °C	
	Storage: -30 °C~60 °C	
Nominal Operating Temp. Range	25±3 °C(77±5°F )	
Cycle Use	Initial Charging Current Less than 19.8 A. Voltage 14.4V-15.0V at 25 °C(77°F ) Temp. Coefficient-20mV/C	
	Standby Use No limit on Intital Charging Current Voltage 13.5V-13.8V at 25 °C(77°F ) Temp. Coefficient-20mV/C	
Capacity affected by Temperature	40 °C( 104°F )	103%
	25 °C( 77°F )	100%
	0 °C( 32°F )	86%
Self Discharge	ECLC 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 )

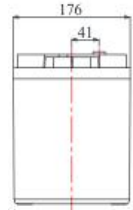
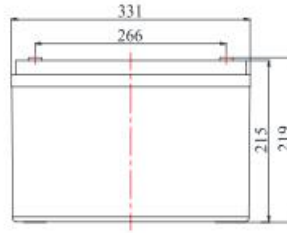
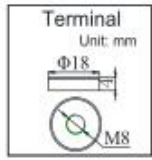
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
<b>1.60V</b>	169.40	108.59	79.27	73.40	45.90	32.13	21.85	13.78	12.52	6.76	1.51
<b>1.67V</b>	164.09	105.19	76.79	71.10	45.00	31.50	21.42	13.50	12.28	6.53	1.49
<b>1.70V</b>	160.88	103.13	75.28	69.71	44.12	30.88	21.00	13.24	12.03	6.50	1.45
<b>1.75V</b>	157.74	101.11	73.81	68.34	43.26	30.28	20.59	12.98	11.80	6.37	1.43
<b>1.80V</b>	154.60	99.10	72.34	66.98	42.39	29.68	20.18	12.73	11.57	6.25	1.40

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

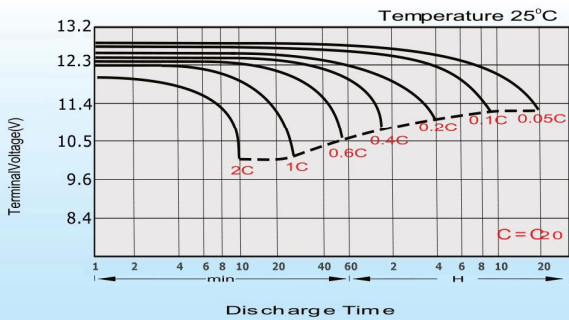
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
<b>1.60V</b>	272.5	174.0	127.9	117.4	74.6	52.4	35.6	23.4	21.0	11.4	2.54
<b>1.67V</b>	267.5	170.8	125.5	115.3	73.3	51.5	35.0	23.1	20.6	11.1	2.49
<b>1.70V</b>	262.6	167.6	123.2	113.1	71.9	50.5	34.3	22.7	20.2	11.1	2.44
<b>1.75V</b>	257.6	164.5	120.9	111.0	70.5	49.5	33.7	22.2	19.8	10.9	2.40
<b>1.80V</b>	247.7	158.2	116.3	106.7	67.9	47.6	32.5	21.3	19.0	10.6	2.35

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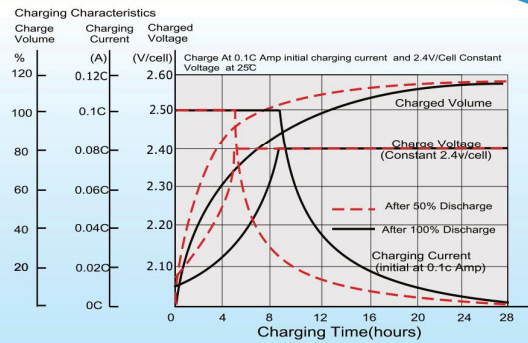
**Dimensions**



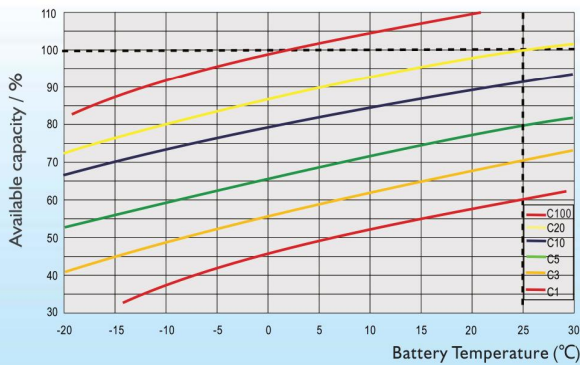
**Discharge Characteristics**



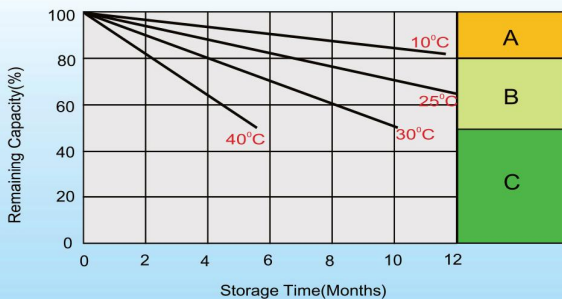
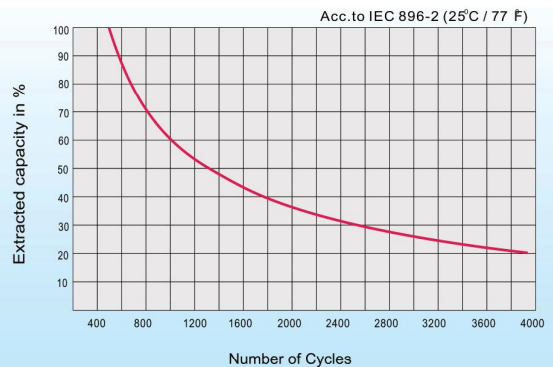
**Charging Characteristics**



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