

## ECLC12-85 (12V 85Ah)

### Specifications

Nominal Voltage	12V	
Nominal Capacity(20 Hr)	85Ah	
Dimension	Length	260±1mm( 10.24 inches)
	Width	169±1mm( 6.65 inches)
	Containeriner Height	211±1mm( 8.31 inches)
	Total Height (With terminal)	215±1mm( 8.47 inches)
	Approx Weight	Approx26.2 kgs( 55.34 lbs)
Design life	18 years	
Terminal	M6	
Container Material	ABS	
Rated Capacity	85.0Ah/4.25A	(20hr, 1.75V/Cell, 25 °C/77°F)
	77.4Ah/7.74A	(10hr, 1.80V/Cell, 25 °C/77°F)
	67.5Ah/13.5A	(5hr, 1.75V/Cell, 25 °C/77°F)
	47.3Ah/47.3A	(1hr, 1.60V/Cell, 25 °C/77°F)
Max. Discharge Current	850A(5s)	
Internal Resistance	Appro≤7.5mΩ	
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 19.1A. Voltage 14.4V-14.9V at 25 °C(77°F ) Temp. Coefficient-20mV/C	
	Standby Use No limit on Intital Charging Current Voltage 13.6V-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 10 months at25 °C(77°F ) 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 °C ( 77F )

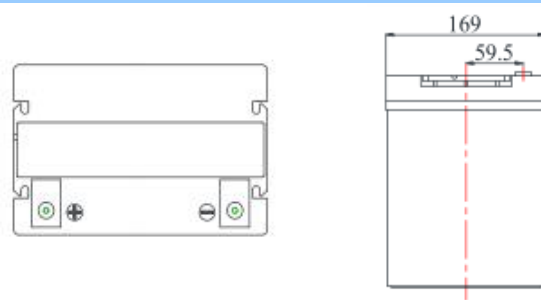
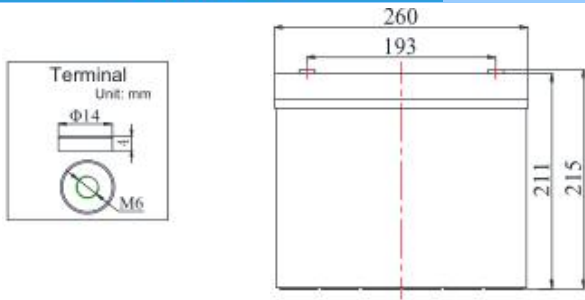
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
<b>1.60V</b>	109.4	69.9	51.3	47.3	30.0	21.1	14.3	9.4	8.42	4.51	1.02
<b>1.67V</b>	107.4	68.6	50.4	46.3	29.4	20.7	14.0	9.3	8.25	4.42	1.00
<b>1.70V</b>	105.4	67.3	49.5	45.5	28.9	20.3	13.8	9.1	8.08	4.34	0.98
<b>1.75V</b>	103.4	66.0	48.5	44.6	28.3	19.9	13.5	8.9	7.99	4.25	0.96
<b>1.80V</b>	99.5	63.5	46.7	42.9	27.2	19.1	13.0	8.6	7.74	4.21	0.94

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

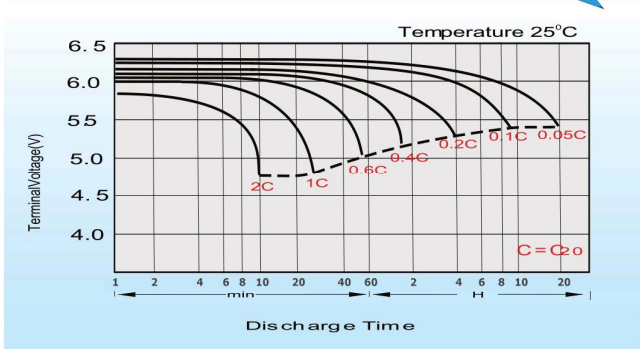
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
<b>1.60V</b>	210.5	134.5	98.9	90.7	57.6	40.5	27.5	18.1	16.2	8.8	1.96
<b>1.67V</b>	206.7	132.0	97.0	89.1	56.6	39.8	27.0	17.9	15.9	8.6	1.92
<b>1.70V</b>	202.9	129.5	95.2	87.4	55.6	39.0	26.5	17.5	15.6	8.5	1.89
<b>1.75V</b>	199.1	127.1	93.4	85.8	54.5	38.3	26.0	17.2	15.3	8.4	1.85
<b>1.80V</b>	191.4	122.2	89.8	82.5	52.4	36.8	25.1	16.5	14.7	8.2	1.82

# ECLC12-85 (12V 85Ah)

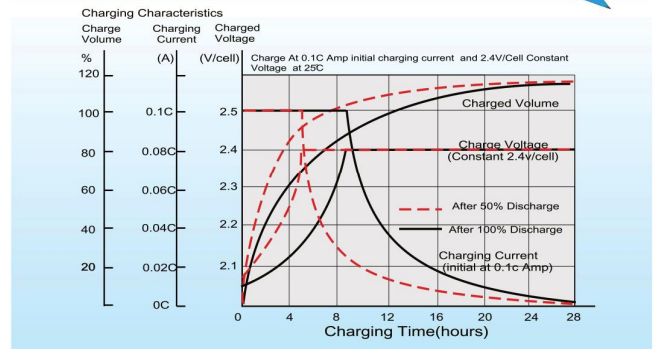
## Dimensions



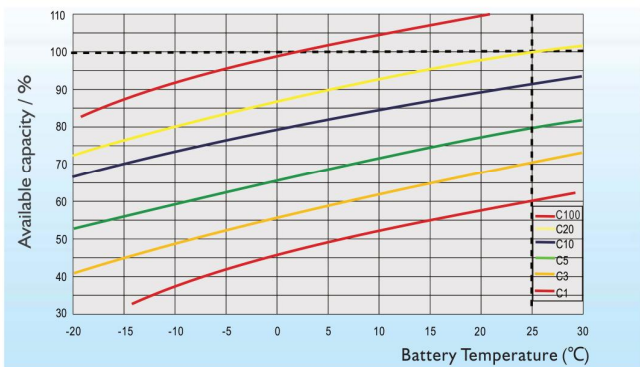
## Discharge Characteristics



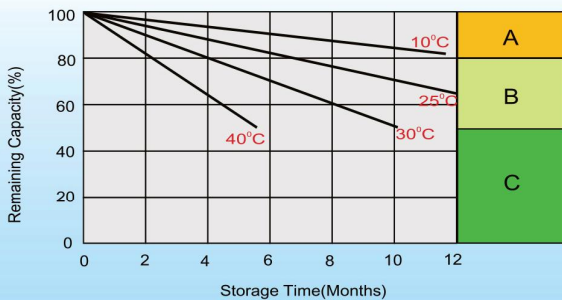
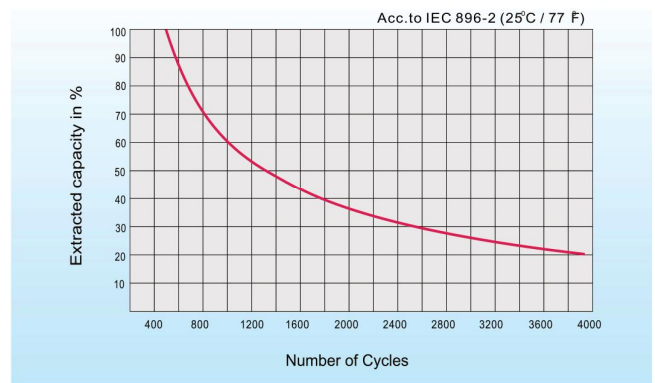
## Charging Characteristics



## 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 volatge 2.25V/cell.
  2. Charged for above 20hours at limited current 0.25CA and constant volatge 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.