

ecobat

Lead crystal battery

ECLC12-55 (12V 55Ah)

Specifications

Nominal Voltage	12V		
Nominal Capacity(20 Hr)	55Ah		
Dimension	Length	229±1mm(9.02 inches)	
	Width	138±1mm(5.43 inches)	
	Containeriner Height	208±1mm(8.19 inches)	
	Total Height (With terminal)	212±1mm(8.35 inches)	
	Approx Weight	Approx16.1kgs(35.49 lbs)	
Design life	18 years		
Terminal	M6		
Container Material	ABS		
Rated Capacity	55.0Ah/2.75A	(20hr, 1.80V/Cell, 25 °C/77°F)	
	51.7Ah/5.17A	(10hr, 1.80V/Cell, 25 °C/77°F)	
	43.5Ah/8.70A	(5hr, 1.75V/Cell, 25 °C/77°F)	
	30.6Ah/30.6A	(1hr, 1.60V/Cell, 25 °C/77°F)	
Max. Discharge Current	550A(5s)		
Internal Resistance	Appro≤10.0mΩ		
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 12.4A. Voltage 14.4V-14.9V at 25 °C(77°F) Temp. Coefficient-20mV/C		
	No limit on Intital Charging Current Voltage 13.6V-13.8V at 25 °C(77°F) Temp. Coefficient-20mV/C		
Standby Use	40 °C(104°F) 103%		
Capacity affected by Temperature	25 °C(77°F) 100%		
	0 °C(32°F) 86%		
	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)

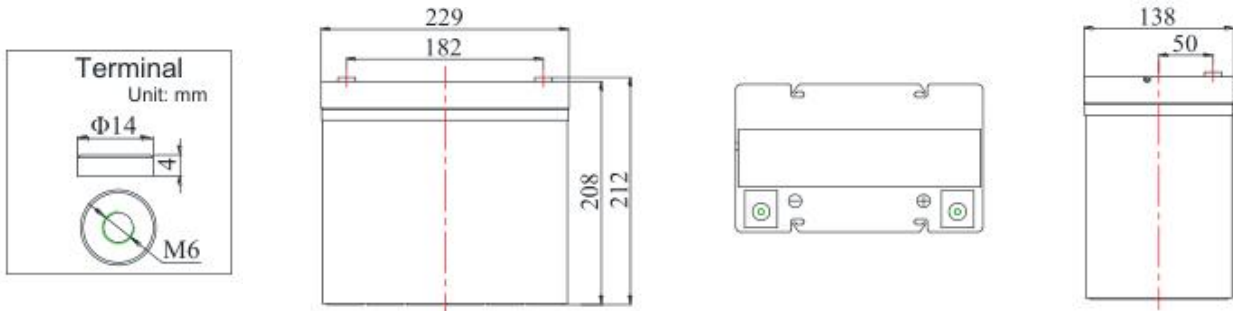
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
1.60V	70.8	45.2	33.2	30.6	19.4	13.6	9.2	6.1	5.45	2.92	0.66
1.67V	69.5	44.4	32.6	30.0	19.0	13.4	9.1	6.0	5.34	2.86	0.65
1.70V	68.2	43.6	32.0	29.4	18.7	13.1	8.9	5.9	5.23	2.81	0.63
1.75V	66.9	42.7	31.4	28.9	18.3	12.9	8.7	5.8	5.17	2.75	0.62
1.80V	64.4	41.1	30.2	27.8	17.6	12.4	8.4	5.6	5.01	2.72	0.61

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

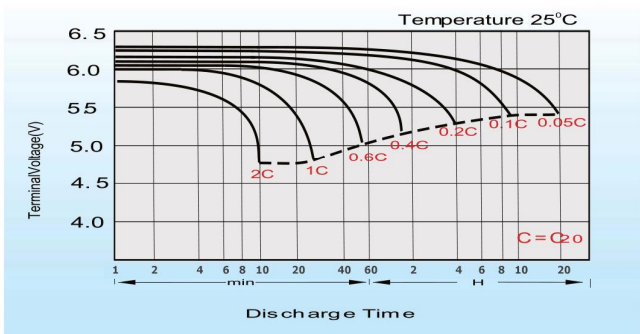
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
1.60V	136.2	87.0	64.0	58.7	37.3	26.2	17.8	11.7	10.5	5.7	1.27
1.67V	133.8	85.4	62.8	57.6	36.6	25.7	17.5	11.6	10.3	5.6	1.24
1.70V	131.3	83.8	61.6	56.5	36.0	25.2	17.2	11.3	10.1	5.5	1.22
1.75V	128.8	82.2	60.4	55.5	35.3	24.8	16.8	11.1	9.9	5.4	1.20
1.80V	123.9	79.1	58.1	53.4	33.9	23.8	16.2	10.7	9.5	5.3	1.18

ECLC12-55 (12V 55Ah)

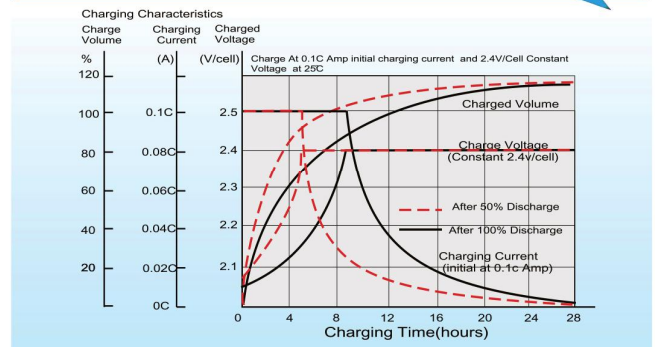
Dimensions



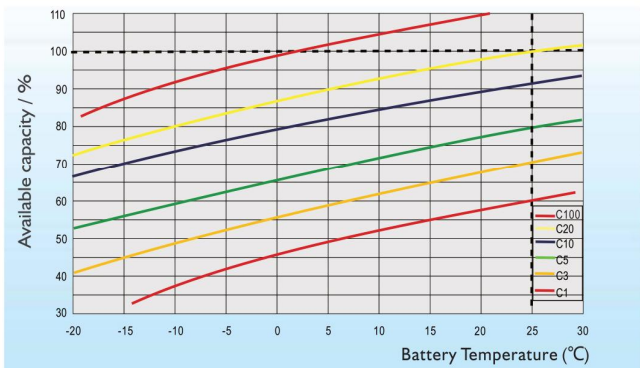
Discharge Characteristics



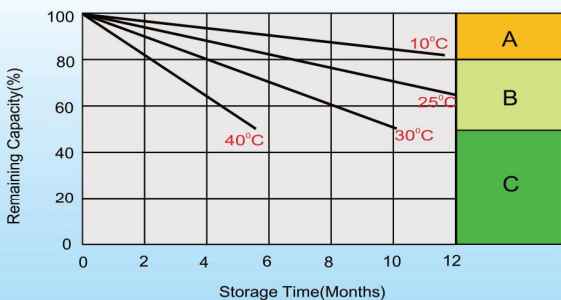
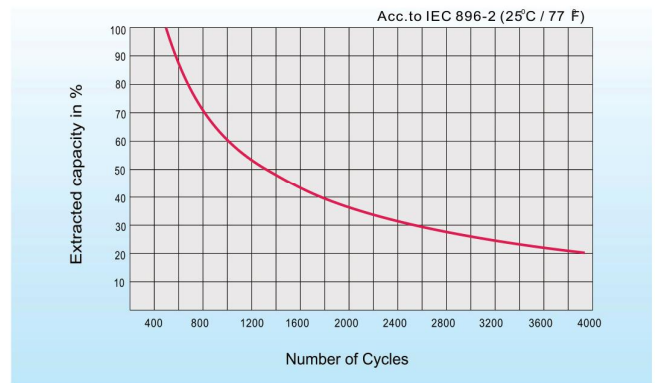
Charging Characteristics



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.