

ECLC12-135 (12V 140Ah)

Deep Cycle Lead Crystal Battery

Specifications	
Nominal Voltage	12V
Nominal Capacity(20 Hr)	140Ah
Dimension	Length 341±1mm (13.43 inches)
	Width 173±1mm (6.81 inches)
	Containeriner Height 283±1mm (11.14 inches)
	Total Height (With terminal) 288±1mm (11.34 inches)
Approx Weight	Approx. 41.0kg (90.39 lb)
Design life	up to 18 years (in standby applications)
Terminal	M8
Container Material	ABS
Rated Capacity	140.0Ah/7.0A (20hr, 1.75V/Cell, 25 °C/77°F)
	127.5Ah/12.75A (10hr, 1.80V/Cell, 25 °C/77°F)
	111.3Ah/22.26A (5hr, 1.75V/Cell, 25 °C/77°F)
	77.94Ah/77.94A (1hr, 1.60V/Cell, 25 °C/77°F)
Max. Discharge Current	1400A(5s)
Internal Resistance	Appro≤4.5mΩ
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 24.3 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 at 25°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	15 min	30 min	45 min	1h	2h	3h	5h	8h	10h	20h	100h
1.60V	180.42	115.24	84.67	77.94	49.49	34.77	23.55	15.56	13.88	7.43	1.68
1.67V	176.96	112.98	83.02	76.30	48.44	34.02	23.10	15.26	13.58	7.28	1.65
1.70V	173.84	111.04	81.59	75.00	47.67	33.51	22.71	15.00	13.32	7.15	1.61
1.75V	170.38	108.78	79.94	73.50	46.62	32.76	22.26	14.70	13.16	7.00	1.58
1.80V	163.80	104.58	76.86	70.70	44.80	31.50	21.42	14.14	12.74	6.93	1.55

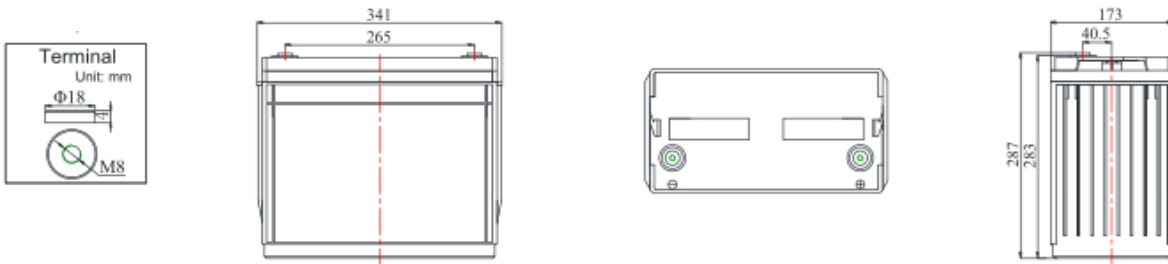
Constant Power Discharge (Watts) at 25 °C (77F)

F.V/Time	15 min	30 min	45 min	1h	2h	3h	5h	8h	10h	20h	100h
1.60V	347.25	221.78	163.04	149.58	95.05	66.73	45.42	29.86	26.78	14.51	3.24
1.67V	340.48	217.42	159.74	146.72	93.24	65.52	44.52	29.40	26.18	14.14	3.16
1.70V	334.65	213.66	157.02	144.12	91.69	64.35	43.74	28.88	25.80	14.09	3.11
1.75V	327.88	209.30	153.86	141.26	89.74	63.00	42.84	28.28	25.20	13.86	3.05
1.80V	315.28	201.32	147.98	133.30	86.38	60.62	41.30	27.16	24.22	13.44	3.00

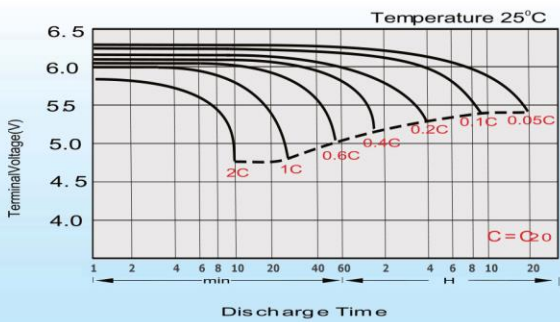
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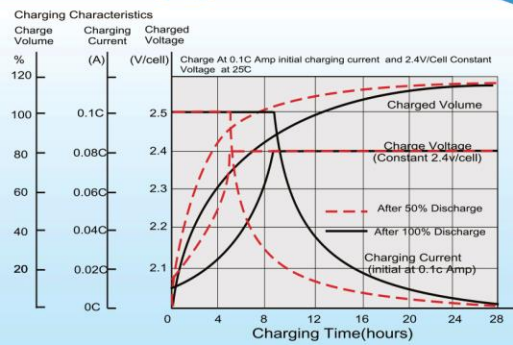
Dimensions



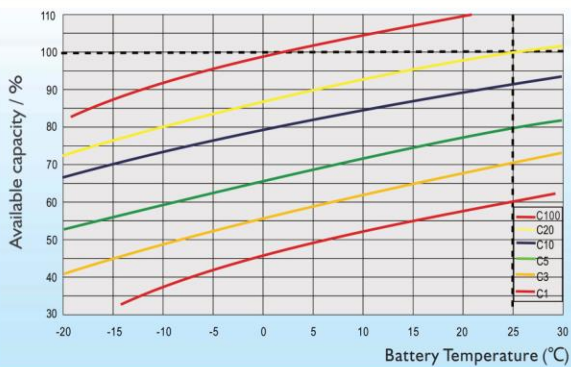
Discharge Characteristics



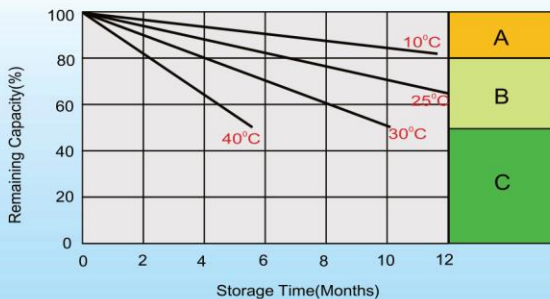
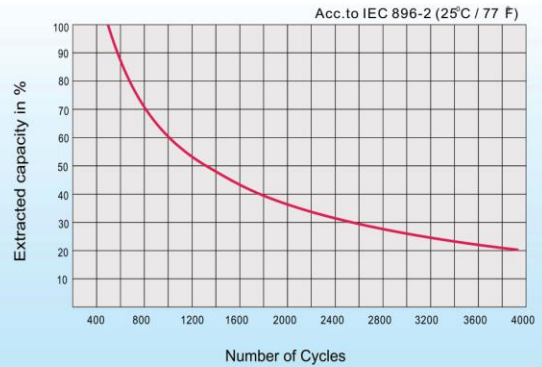
Charging Characteristics



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 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.