

ECLC12-150 (12V 160Ah)

Specifications

Nominal Voltage	12V	
Nominal Capacity(20 Hr)	160Ah	
Dimension	Length	484±1mm(19.06 inches)
	Width	171±1mm(6.65 inches)
	Containeriner Height	241±1mm(9.49 inches)
	Total Height (With terminal)	241±1mm(9.49 inches)
	Approx Weight	Approx 45.7 kgs(100.75lbs)
Design life	18 years	
Terminal	M8	
Container Material	ABS	
Rated Capacity	160.0Ah/8.00A	(20hr, 1.75V/Cell, 25 °C/77°F)
	145.7Ah/14.57A	(10hr, 1.80V/Cell, 25 °C/77°F)
	127.45Ah/25.49A	(5hr, 1.75V/Cell, 25 °C/77°F)
	88.96Ah/88.96A	(1hr, 1.60V/Cell, 25 °C/77°F)
Max. Discharge Current	1550A(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 27A. 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 at 25 °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 (77°F)

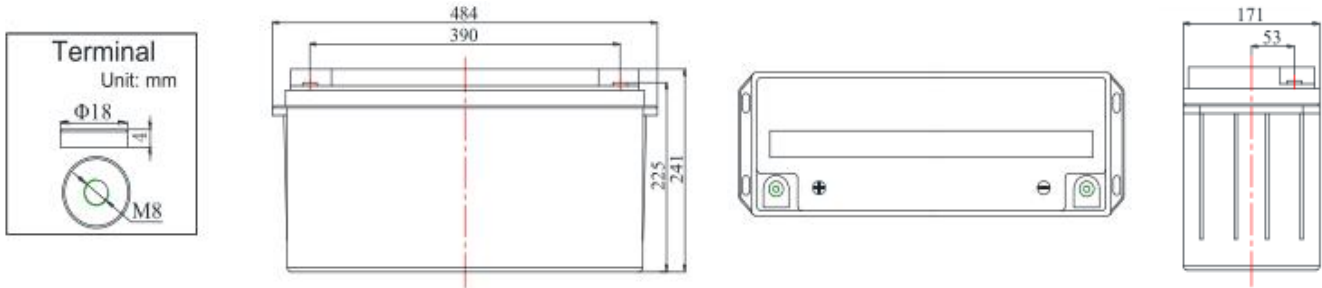
F.V/Time	15 min	30 min	45 min	1h	2h	3h	5h	8h	10h	20h	100h
1.60V	205.97	131.52	96.64	88.96	56.53	39.68	26.88	17.81	15.84	8.48	1.92
1.67V	202.24	129.17	94.93	87.25	55.36	38.93	26.45	17.49	15.52	8.32	1.89
1.70V	198.40	126.72	93.12	85.65	54.40	38.29	25.92	17.17	15.20	8.16	1.85
1.75V	194.77	124.37	91.41	84.05	53.33	37.44	25.49	16.85	15.04	8.00	1.81
1.80V	187.31	119.64	87.95	80.90	51.23	36.07	24.55	16.22	14.57	7.93	1.78

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

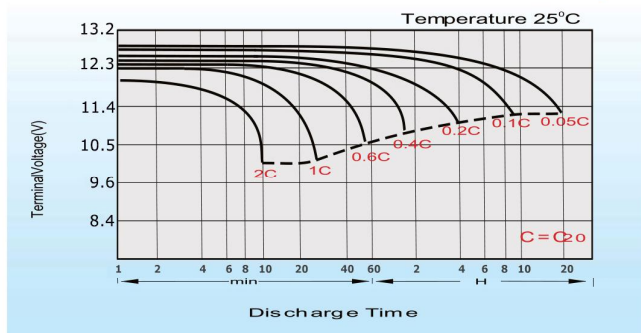
F.V/Time	15 min	30 min	45 min	1h	2h	3h	5h	8h	10h	20h	100h
1.60V	396.37	253.12	186.13	170.77	108.48	76.16	51.84	34.13	30.61	16.53	3.70
1.67V	389.12	248.53	182.61	167.68	106.56	74.88	50.88	33.60	29.97	16.21	3.62
1.70V	381.97	243.84	179.20	164.48	104.64	73.49	49.92	32.96	29.44	16.11	3.55
1.75V	374.72	239.25	175.89	161.49	102.61	72.00	48.96	32.32	28.80	15.89	3.49
1.80V	360.53	230.22	169.27	155.29	98.83	69.37	47.28	31.06	27.75	15.37	3.43

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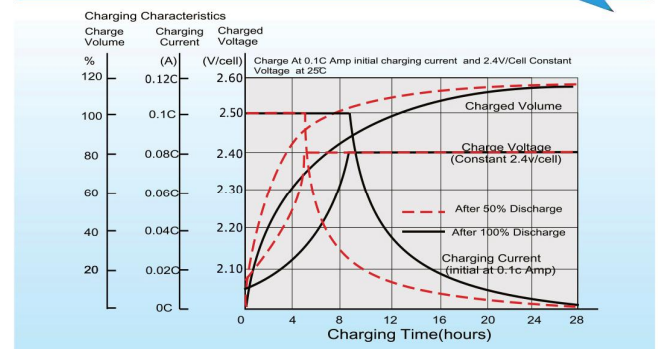
Dimensions



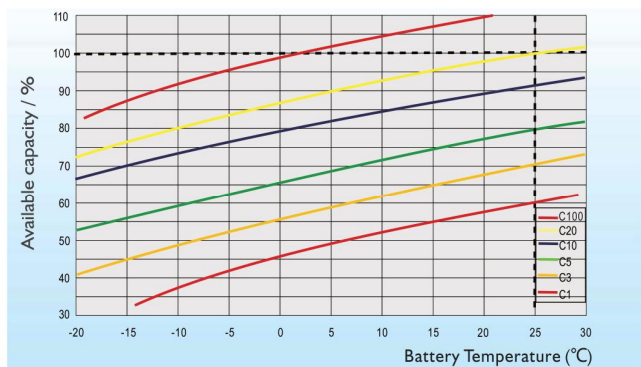
Discharge Characteristics



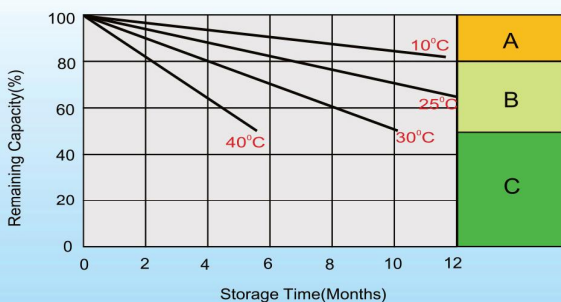
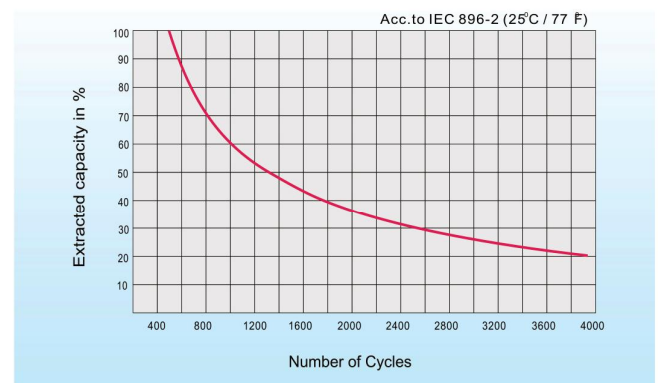
Charging Characteristics



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