Veloris.
The Battery Partner.

ECLC12-50 (12V 50Ah)

Lead crystal battery

Specification

Nominal Voltage	12V	
Nominal Capacity(20 Hr)	50Ah	
Dimension	Length	198±1mm(7.80 inches)
	Width	166±1mm(6.53 inches)
	Containeriner Height	174±1mm(6.85 inches)
	Total Height (With terminal)	174±1mm(6.85 inches)
Approx Weight	Approx14.6kgs(32.19 lbs)	
Design life	18 years	
Terminal	M6	
Container Material	ABS	
Rated Capacity	50.0Ah/2.50A	(20hr, 1.75V/Cell, 25 ℃/77℉)
	45.6Ah/4.56A	(10hr, 1.80V/Cell, 25 ℃/77℉)
	39.7Ah/7.95A	(5hr, 1.75V/Cell, 25 ℃/77℉)
	27.8Ah/2.78A	(1hr, 1.60V/Cell, 25 ℃/77℉)
Max. Discharge Current	480A(5s)	
Internal Resistance	Appro≤10.2mΩ	
Operating Temp. Range	Discharge: -30 ℃~60 ℃	
	Charge: -30 ℃~60 ℃	
	Storage: -30 ℃~60 ℃	
Nominal Operating Temp. Range	25±3 ℃(77±5℉)	
Cycle Use	Initial Charging Current Less than 10.8A. Voltage 14.4V-14.9V at 25 ℃(77℉) Temp. Coefficient-20mV/C	
Standby Use	No limit on Intital Charging Current Voltage 13.6V-13.8V at 25 ℃(77℉) Temp. Coefficient-20mV/C	
Capacity affected by Temperature	40 ℃(104℉)	103%
	25 ℃(77℉)	100%
	0 ℃(32℉)	86%
Self Discharge	ECLC series batteries may be stored for up to 10 months at25 ℃(77℉) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	



Applications

- All Purpose
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Emergency light
- Railway signal
- Aircraft signal
- Alarm and security system
- Electronic apparatus & equipment
- Communication power supply
- DC power supply
- Auto control system

Constant Current Discharge (Amperes) at 25 ℃ (77F)

F.V/Time	15 min	30 min	45 min	1h	2h	3h	5h	8h	10h	20h	100h
1.60V	64.35	41.10	30.20	27.80	17.65	12.40	8.40	5.55	4.95	2.65	0.60
1.67V	63.20	40.35	29.65	27.25	17.30	12.15	8.25	5.45	4.85	2.60	0.59
1.70V	62.00	39.60	29.10	26.75	17.00	11.95	8.10	5.35	4.75	2.55	0.58
1.75V	60.85	38.85	28.55	26.25	16.65	11.70	7.95	5.25	4.70	2.50	0.57
1.80V	58.62	37.43	27.51	25.30	16.03	11.27	7.67	5.06	4.56	2.48	0.56

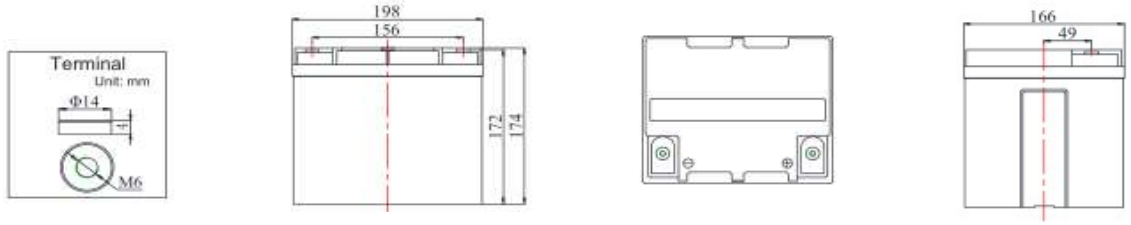
Constant Power Discharge (Watts) at 25 ℃ (77F)

F.V/Time	15 min	30 min	45 min	1h	2h	3h	5h	8h	10h	20h	100h
1.60V	123.85	79.10	58.15	53.35	33.90	23.80	16.20	10.65	9.55	5.15	1.16
1.67V	121.60	77.65	57.05	52.40	33.30	23.40	15.90	10.50	9.35	5.05	1.13
1.70V	119.35	76.20	56.00	51.40	32.70	22.95	15.60	10.30	9.20	5.05	1.11
1.75V	117.10	74.75	54.95	50.45	32.05	22.50	15.30	10.10	9.00	4.95	1.09
1.80V	112.83	72.05	52.96	48.60	30.91	21.69	14.78	9.72	8.67	4.81	1.07

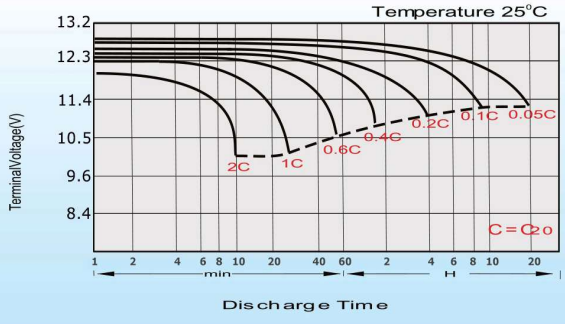
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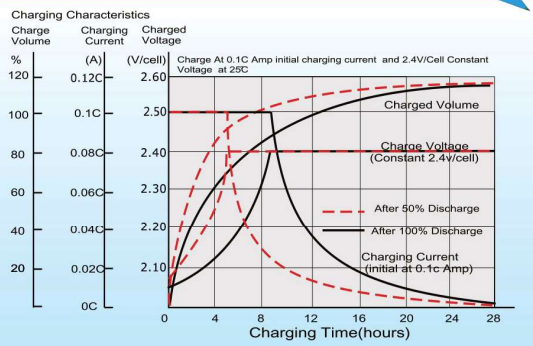
Dimensions



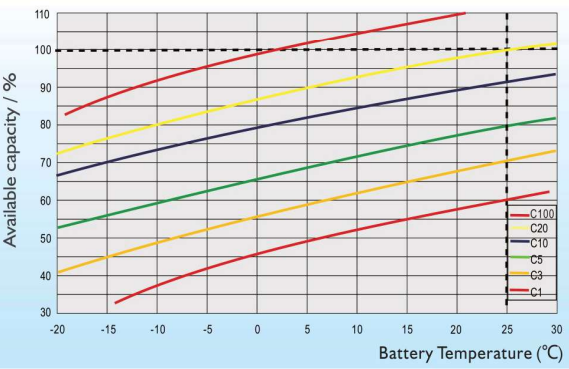
Discharge Characteristics



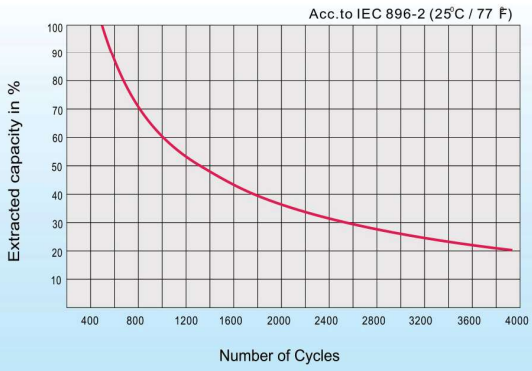
Charging Characteristics

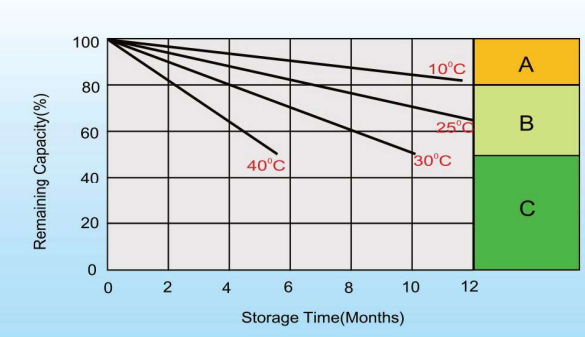


Temperature Effects in Relation to Battery Capacity



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