

ELC12-3.2 (12V 3.2Ah)**VRLA-AGM Battery****Specifications**

Nominal Voltage	12V	
Nominal Capacity(20 Hr)	3.2Ah	
Dimension	Length	134±1mm(5.28 inches)
	Width	67±1mm(2.64 inches)
	Containeriner Height	61±1mm(2.40 inches)
	Total Height (With terminal)	61±1mm(2.40 inches)
Approx Weight	Approx 1.22 kgs(0.48 lbs)	
Design life	5 years	
Terminal	F1	
Container Material	ABS	
Rated Capacity	3.20Ah/0.16A	(20hr, 1.75V/Cell, 25 °C/77°F)
	3.10Ah/0.31A	(10hr, 1.80V/Cell, 25 °C/77°F)
	2.90Ah/0.58A	(5hr, 1.75V/Cell, 25 °C/77°F)
	2.27Ah/2.27A	(1hr, 1.60V/Cell, 25 °C/77°F)
Max. Discharge Current	49.5A(5s)	
Internal Resistance	Appro≤50.0mΩ	
Operating Temp. Range	Discharge: -20 °C~50 °C	
	Charge: 0 °C~40 °C	
	Storage: -20 °C~50 °C	
Nominal Operating Temp. Range	25±3 °C(77±5°F)	
Cycle Use	Initial Charging Current Less than 0.99A. 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%	
Self Discharge	ELC series batteries may be stored for up to 6 months at25 °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	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	11.34	8.20	6.46	3.78	2.65	2.27	1.33	0.92	0.61	0.41	0.33	0.174
1.67V	11.14	8.11	6.28	3.71	2.60	2.23	1.31	0.90	0.60	0.40	0.33	0.171
1.70V	10.93	7.88	6.14	3.64	2.55	2.19	1.29	0.88	0.59	0.39	0.32	0.168
1.75V	10.73	7.52	5.96	3.58	2.50	2.15	1.26	0.87	0.58	0.39	0.32	0.165
1.80V	10.31	7.43	5.78	3.44	2.41	2.06	1.21	0.83	0.55	0.37	0.31	0.163

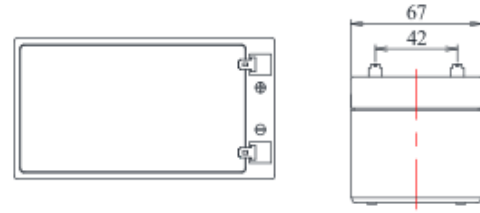
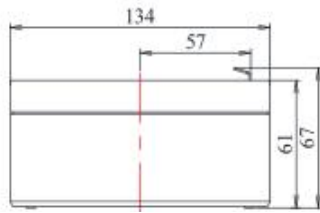
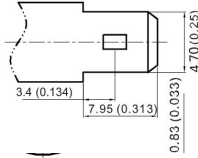
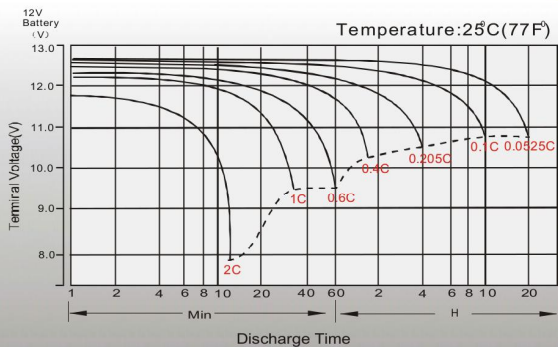
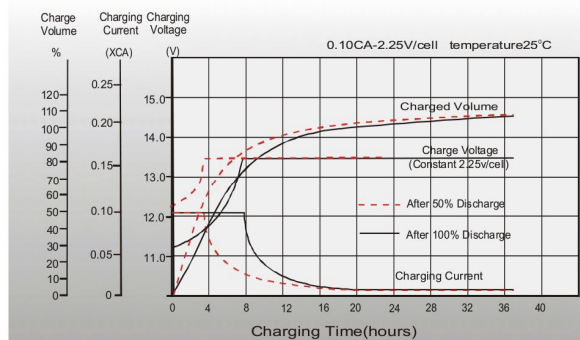
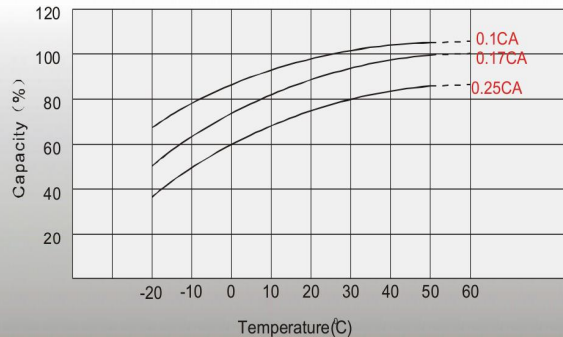
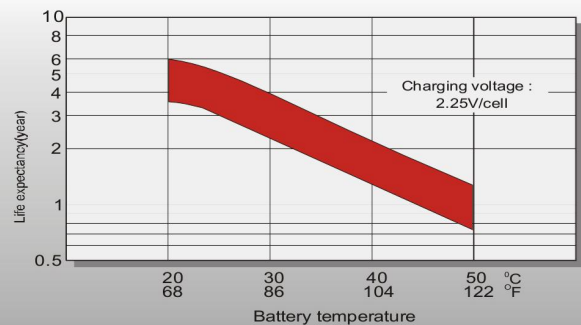
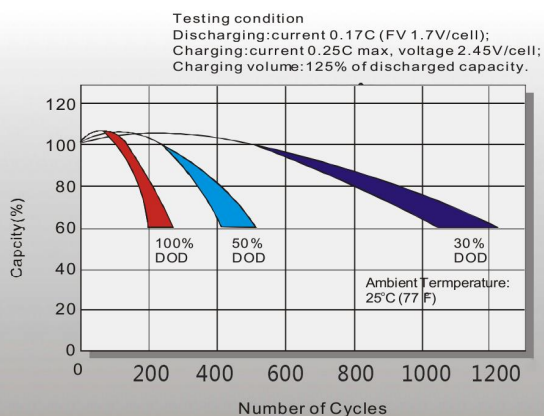
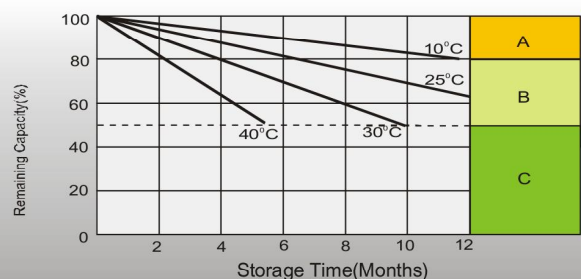
Constant Power Discharge (Watts) at 25 °C (77F)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	21.84	16.18	12.47	7.28	5.10	4.37	2.57	1.76	1.17	0.79	0.65	0.344
1.67V	21.44	15.90	12.10	7.15	5.00	4.29	2.52	1.73	1.15	0.77	0.64	0.335
1.70V	21.04	15.58	11.78	7.01	4.91	4.21	2.48	1.70	1.13	0.76	0.63	0.330
1.75V	20.65	14.67	11.46	6.88	4.82	4.13	2.43	1.66	1.11	0.75	0.62	0.325
1.80V	19.85	14.21	11.14	6.62	4.63	3.97	2.34	1.60	1.07	0.72	0.60	0.321



ELC12-3.2 (12V 3.2Ah)
Dimensions

■ F1 Terminal
Unit: mm [inches]


Discharge Characteristics

Float Charging Characteristics

Temperature Effects in Relation to Battery Capacity

Effect of Temperature on Long Term Float Life

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.