

ECSG12-240 (12v 240Ah)
Specification

Nominal Voltage	12V	
Nominal Capacity(100 Hr)	240Ah	
Dimension	Length	532±1mm(20.94 inches)
	Width	206±1mm(8.11 inches)
	Containeriner Height	215±1mm(8.46 inches)
	Total Height (With terminal)	222±1mm(8.74 inches)
Approx Weight	Approx 53 kgs (116.84lbs)	
Design life	12 years	
Terminal	M8	
Container Material	ABS	
Rated Capacity	240.0Ah/2.40A	(100hr, 1.75V/Cell, 25 °C/77°F)
	213.8Ah/10.69A	(20hr, 1.75V/Cell, 25 °C/77°F)
	200.0Ah/20.0A	(10hr, 1.80V/Cell, 25 °C/77°F)
	176.0Ah/35.2A	(5hr, 1.75V/Cell, 25 °C/77°F)
	127.6Ah/127.6A	(1hr, 1.60V/Cell, 25 °C/77°F)
Max. Discharge Current	2000A(5s)	
Internal Resistance	Appro≤3.9 mΩ	
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 40 A. 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)	108%
	25 °C(77°F)	100%
	0 °C(32°F)	90%
Self Discharge	ECSG 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
- Solar or Wind Power System
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Railway signal
- Aircraft signal
- Alarm and security system
- Electronic apparatus & equipment
- Communication power supply

Constant Current Discharge (Amperes) at 25 °C (77°F)

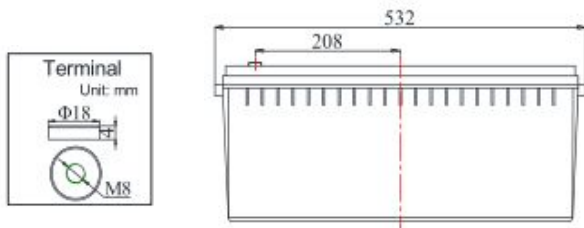
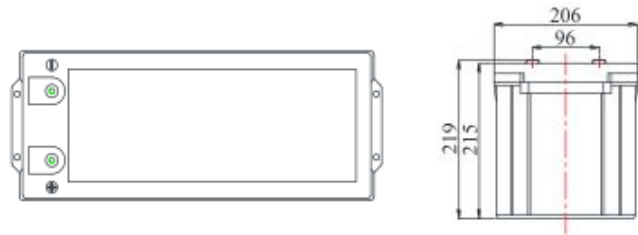
F.V/Time	15 min	30min	45min	1h	2h	3h	5h	6h	8h	10h	20h	100h
1.60V	361.0	212.4	160.9	127.8	75.4	55.4	36.9	32.3	25.4	20.8	11.08	2.52
1.67V	341.0	201.7	154.7	123.9	72.4	53.1	36.9	31.6	25.4	20.8	11.01	2.53
1.70V	320.2	195.5	149.3	119.3	70.8	52.3	36.2	31.6	24.6	20.8	10.85	2.52
1.75V	300.0	186.9	142.3	113.8	68.5	50.8	35.4	30.8	24.6	20.0	10.69	2.40
1.80V	281.4	179.9	137.6	109.9	66.1	49.2	34.6	30.0	23.8	20.0	10.61	1.29

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

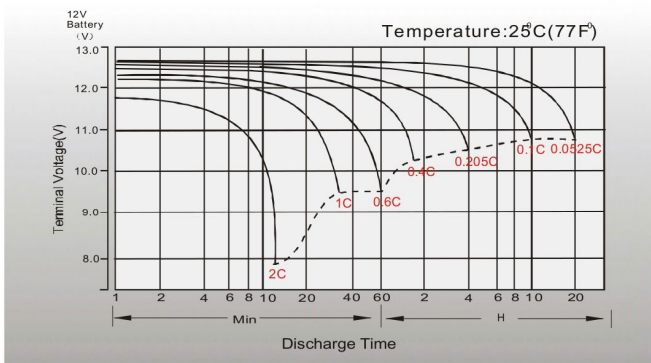
F.V/Time	15 min	30min	45min	1h	2h	3h	5h	6h	8h	10h	20h	100h
1.60V	690.2	422.4	306.2	244.7	142.3	105.4	71.6	62.3	49.2	40.8	21.5	4.93
1.67V	660.4	395.9	295.2	238.3	138.4	102.3	70.7	61.5	49.2	40.7	21.5	4.93
1.70V	615.4	386.9	286.2	230.0	135.4	100.0	69.2	60.8	48.5	40.0	21.5	4.83
1.75V	577.4	368.3	274.5	221.4	132.2	98.4	68.4	60.0	47.7	40.0	21.5	4.84
1.80V	542.0	353.6	265.2	214.5	127.6	95.3	66.9	58.4	47.7	39.2	20.8	4.85

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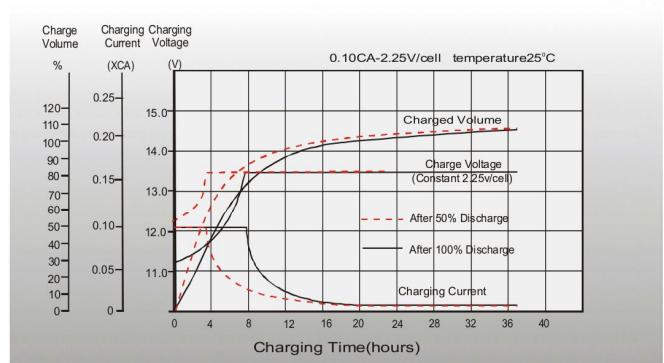
Dimensions



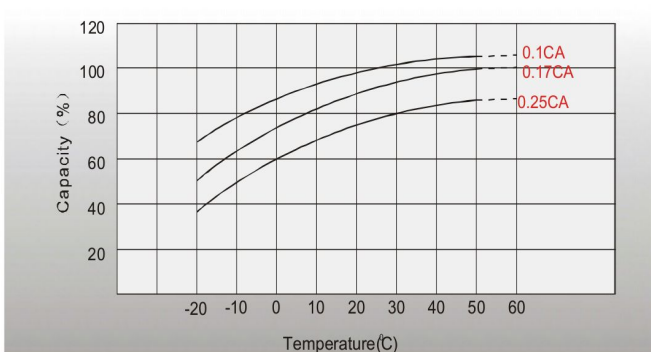
Discharge Characteristics



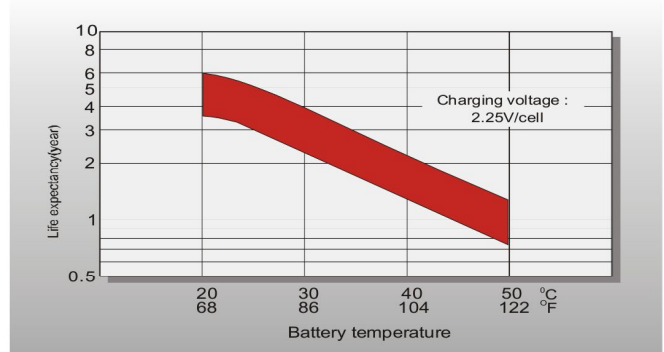
Float Charging Characteristics



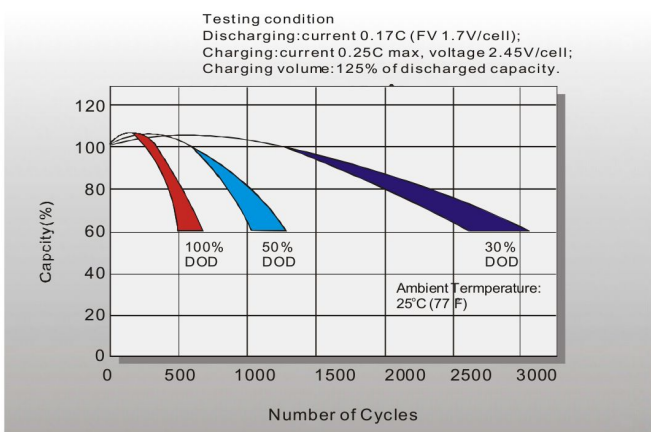
Temperature Effects in Relation to Battery Capacity



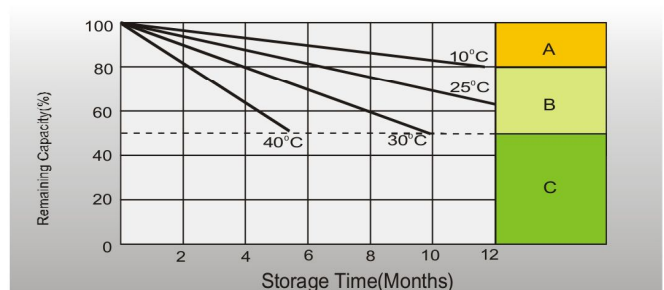
Effect of Temperature on Long Term Float Life



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.

Specifications subject to change without prior notice.