

EVG12-30

12V 30Ah / 10hr rate

BATTERY
Samson

Introduction

Samson EV AGM Series is designed for tough applications and repeated deep discharging. It is superior with the long cycle life, large current discharge capability, high reliability and safety. The range is the definitive choice for golf cart, electric medical equipment, automated guided vehicles (AGV), aerial lifts, floor cleaning equipment, robotics applications.

Battery Features

- Extra long cycle life and resistance to mechanical stress and the elements all in one battery.
- Maintenance-free
- Very high purity lead (purity rate 99.994%)
- Traction heavy duty grid design gives consistent active material adhesion and corrosion resistance.
- Fully tank formed plates for evenly formed and capacity matched plates.
- Low impurity electrolyte
- Recognized gas recombination efficiency greater than 99.9%
- Flame arresting pressure regulated safety sealing valves for safety.
- Low self-discharge
- Classified as non-spillable and not restricted for transportation by
 - > Air (IATA/ICAO provision 67)
 - > Surface (DOT-CFR-HMR49)
 - > Water (per IMDG amendment 27)

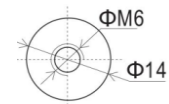
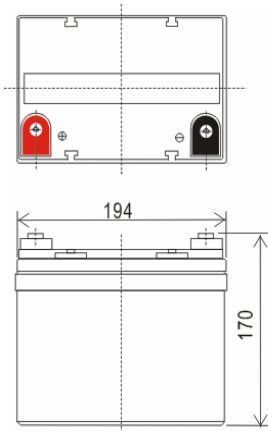
Electrical Specification

Design floating Life @ 25°C /77°F	10 years		
Design Life Cycles @ 80% D.O.D. (25°C)	450 Cycles		
Nominal Capacity @ 25°C /77°F			
20 hour rate 1.65 A to 1.75Vpc			33 Ah
10 hour rate 3.3 A to 1.75Vpc			30 Ah
5 hour rate 5.94 A to 1.75Vpc			27 Ah
3 hour rate 8.8 A to 1.70Vpc			24 Ah
Minutes of Discharge			
25A to 10.5V -	56A to 10.2V	-	
75A to 10.2V -	85A to 10.2V	-	
100A to 10.2V -			
Cranking Amps			
0°C /32°F	170	-18°C /0°F	140
Internal Resistance			
(Fully charged battery @ 25°C /77°F)	9.0 mΩ		
Max. Discharge Current @ 25°C /77°F	280 A (5S)		
Short Circuit Current	500 A		
Charge Methods: Constant voltage charge @ 25°C /77°F			
Cycle Use	14.7 ~ 14.9V		
Max. Current	8 A		
Standby Use	13.6 - 13.8V		
Operating Temperature Range	-20 ~ 60°C		
Notes: battery voltage must be adjusted according to temperature.			
Please refer to our recommendation.			
Self-Discharge	3% of capacity declined per month @ 25°C (77°F).		

Battery Picture & Terminal Layout



Terminal Type: Female M6
Terminal Torque: 9-11 Nm



Dimension & Weight

Length	Dimension (± 2mm)			Weight (± 2%)
	Width	Height	Total Height	
194 mm	132 mm	170 mm	170 mm	11,8 kg
7,6 inch	5,2 inch	6,7 inch	6,7 inch	26,0 lbs

Typical Applications

- Golf Cart
- Golf Trolley
- Tour Bus
- Sweeper
- Electric Medical Equipments
- Floor Cleaning Machines
- Aerial and Fork Lifts
- Marine and RV
- Automated guided vehicles (AGV)

Other relevant information

Contry of origin: **China** HS Code (harmonized system code): **85 07 10 00**
UN-Transport declaration: **UN2800** Customs tariff number **8507 10 20 80**

Cetificates

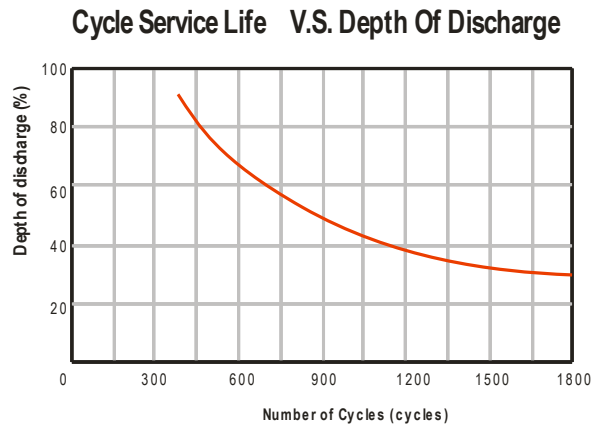
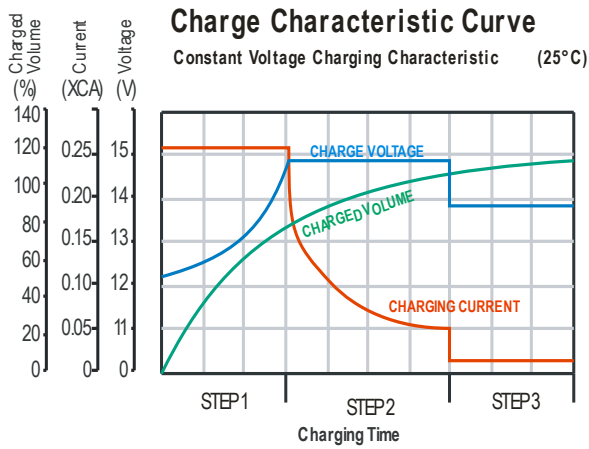


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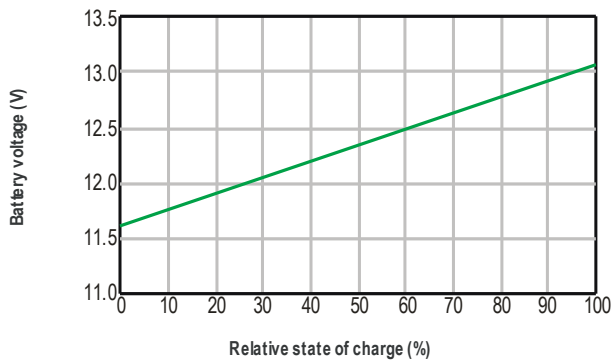
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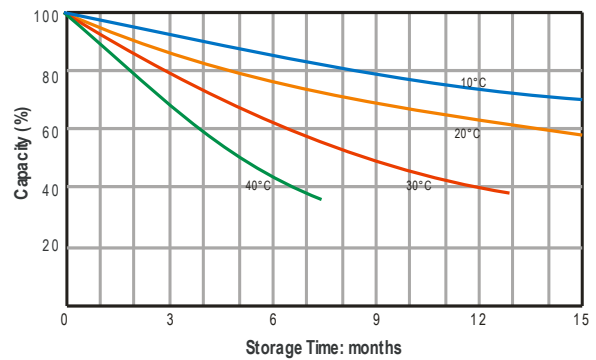
Graphs



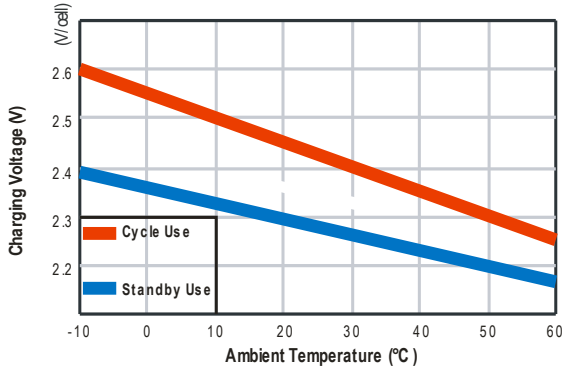
OCV V.S. State of Charge (20°C)



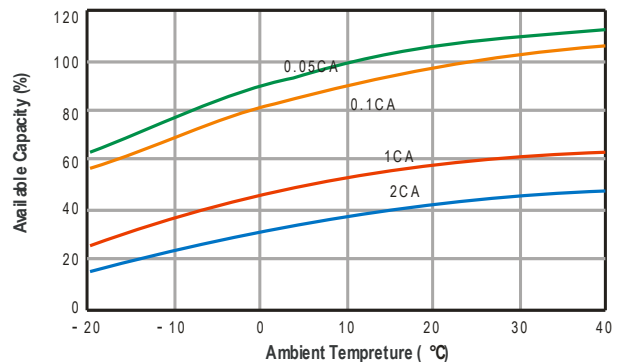
Self-Discharge Characteristic



Charging Voltage V.S. Temperature



Temperature Effects On Capacity



Subject to revision without notice. Please contact our sales representatives for latest version.

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