EV12-45

12V 45Ah / 10hr rate



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)

Flectrical Specification

Electrical Specification								
Design	10 years							
Design	450 Cycles							
Nominal Capacity @ 25°C /77°F								
100	hour rate	0.54 to 1.75Vpc		54 Ah				
10	hour rate	4.5 A to 1.75Vpc		45 Ah				
5	5 hour rate 8.1 A to 1.75Vpc		40.5 Ah					
3	3 hour rate 12 A to 1.70Vpc		36 Ah					
1	hour rate	rate 27 A to 1.60Vpc		27 Ah				
Minutes of Discharge								
25A to	10.5V	80	56A to 10.2V	30				
75A to 10.2V		20	85A to 10.2V	17				
100A to 10.2V		13						
Cranking Amps								
0°C /32°F		235	-18°C /0°F	195				
Internal Resistance								
(Fully	6.5 mΩ							
Max. D	400 A (5S)							
Charge Methods: Constant voltage charge @ 25°C /77°F								
Cycle	14.7 ~ 14.9V							
Max.	11.0A							
Stan	13.6 - 13.8V							
Operat	-20 ~ 60°C							
Notes: battery voltage must be adjusted according to temperature.								
Please refer to our recommendation.								
Self-Discharge								

Battery Picture & Terminal Layout



Dimension & Weight

	Weight			
Length	Width	Height	Total Height	(± 2%)
197 mm	165 mm	170 mm	170 mm	13,5 kg
7,8 inch	6,5 inch	6,7 inch	6,7 inch	29,8 lbs

Typical Applications

- O Golf Cart
- O Golf Trolley
- O Sweeper
- O Tour Bus
- O Floor Cleaning Machines
- O Electric Medical Equipments O Aerial and Fork Lifts
- $\bigcirc \ \text{Marine and RV}$
- O Automated guided vehicles (AGV)

Other relevant information

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

Cetificates















3% of capacity declined per month @ 25°C (77°F).

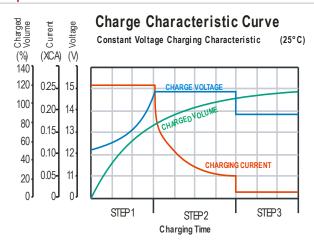
EV12-45

12V 45Ah / 10hr rate

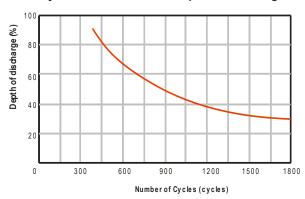


Graphs

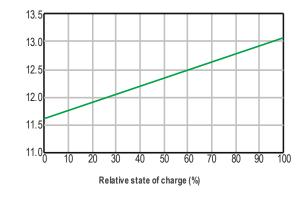
Battery voltage (V)



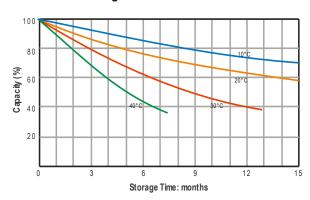
Cycle Service Life V.S. Depth Of Discharge



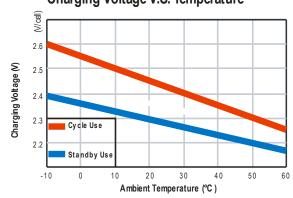
OCV V.S. State of Charge (20°C)



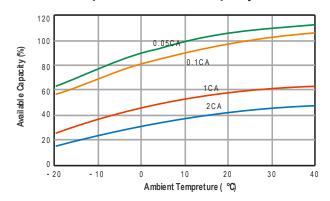
Self-Discharge Characteristic



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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