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BATTERY

VEV12-45

12V 45Ah / 10h

Battery Picture & Terminal Layout

Samson VEV 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.

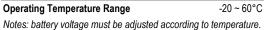
Battery Features

Introduction

- 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 L	ife @ 25°C /77°F		10 years
Design	450 Cycles			
Nomin	al Capacit	y @ 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	hour rate	8.1 A to 1.75Vpc		40.5 Ah
3	hour rate	12 A to 1.70Vpc		36 Ah
1	hour rate	27 A to 1.60Vpc		27 Ah
Minute	s of Disch	arge		
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		
Cranki	ig Amps			
0°C /32°F		235	-18°C /0°F	195
Interna	I Resistan	ce		
(Full	6.5 mΩ			
Max. D	400 A (5S)			
Charge	e Methods:	Constant voltage	e charge @ 25°	°C /77°F
Cycl	14.7 ~ 14.9V			
Max. Current				13.5 A
Max	11.0 A			
Standby Use				13.6 - 13.8V



Please refer to our recommendation.

Self-Discharge

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

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

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Terminal Type: Female M6 Terminal Torque: 9-11 Nm ФМ6 Θ Φ16 165 197 170

Dimension & Weight

	Weight			
Length	Width	Height	Total Height	(± 2%)
197 mm	165 mm	170 mm	170 mm	14,5 kg
7,8 inch	6,5 inch	6,7 inch	6,7 inch	32,0 lbs

Typical Applications

- Golf Cart
- Tour Bus
- O Electric Medical Equipments
- Aerial and Fork Lifts O Automated guided vehicles (AGV)
- Golf Trolley ○ Sweeper
- - Floor Cleaning Machines
- \bigcirc Marine and RV
- Other relevant information Contry of origin: China HS Code (harmonized system code): 85 07 20 00 UN2800 Customs tariff number UN-Transport declaration:
- Cetificates

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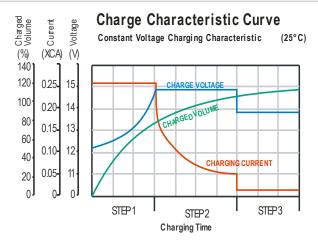
VEV12-45 12V 45Ah / 10h



BATTERY

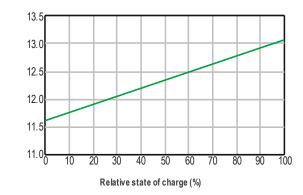
Graphs

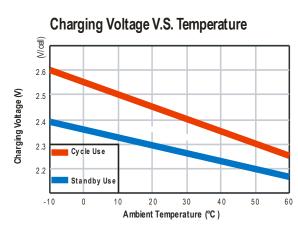
Battery voltage (V)



Cycle Service Life V.S. Depth Of Discharge

OCV V.S. State of Charge (20°C)

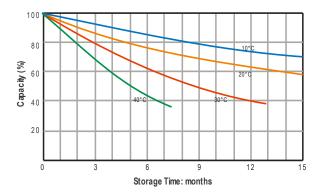




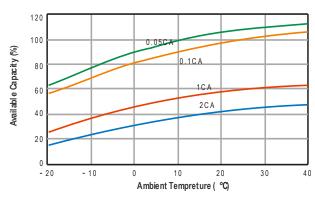
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 Web:
 www.jysk-akku.dk
 E-mail:
 jvba@jysk-akku.dk

Self-Discharge Characteristic







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