

VNS12-2.9

12V 2.9Ah / 20h



Introduction

Samson VNS series is designed for standby use with 5-year design life in float service. The series battery is featured of high consistency, excellent performance and reliable standby service life. It is widely applied in UPS/EPS, medical equipment, emergency light and security system.

Battery Features

- Low self-discharge
- Fully tank formed plates
- Low impurity electrolyte
- Spill proof / leak proof
- Multi-position usage
- ABS case and cover VO upon request
- very high purity lead

Electrical Specification

Design floating Life @ 25°C (77°F)	5 years
Design Life Cycles @ 50% D.O.D. (25°C)	600 Cycles
Nominal Capacity @ 25°C /77°F	
20 hour rate	0.145A to 1.75Vpc 2.9 Ah
10 hour rate	0.27A to 1.75Vpc 2.7 Ah

Internal Resistance	
(Fully charged battery @ 25°C /77°F)	42 mΩ
Max. Discharge Current @ 25°C /77°F	28 A (5S)
Short Circuit Current	50 A
Charge Methods: Constant voltage charge @ 25°C /77°F	
Cycle Use	14.7 ~ 14.9V
Max. Current	0.87 A
Max. Current for best battery life	0.7 A
Standby Use	13.6 - 13.8V

Operating Temperature Range	-30 ~ 50°C
<i>Notes: battery voltage must be adjusted according to temperature. Please refer to our recommendation.</i>	

Self-Discharge	3% of capacity declined per month @ 25°C (77°F).
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Constant Current Discharge (Amperes @ 25°C /77°F)

V/cell	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	1hr	2hr	3hr	4hr	5hr	10hr	20hr
1,60	5,83	4,86	4,62	3,92	2,74	2,52	2,32	2,11	1,90	1,75	1,51	0,88	0,66	0,56	0,50	0,29	0,164
1,65	5,59	4,66	4,43	3,76	2,64	2,43	2,23	2,03	1,87	1,72	1,47	0,83	0,64	0,54	0,49	0,28	0,164
1,70	5,34	4,45	4,23	3,59	2,53	2,33	2,14	1,95	1,81	1,67	1,44	0,80	0,63	0,54	0,49	0,28	0,160
1,75	5,10	4,25	4,04	3,43	2,43	2,24	2,06	1,87	1,74	1,60	1,40	0,77	0,61	0,52	0,48	0,27	0,145
1,80	4,85	4,04	3,84	3,26	2,34	2,15	1,98	1,80	1,68	1,54	1,37	0,74	0,59	0,50	0,47	0,26	0,155

Constant Power Discharge (Watts/cell @ 25°C /77°F)

V/cell	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	1hr	2hr	3hr	4hr	5hr	10hr	20hr
1,60	11,17	9,31	8,54	7,26	5,14	4,87	4,48	4,07	3,67	3,37	3,08	1,72	1,42	1,11	0,94	0,56	0,31
1,65	10,73	8,94	8,19	6,96	4,93	4,69	4,31	3,92	3,61	3,32	2,94	1,62	1,38	1,08	0,90	0,55	0,30
1,70	10,27	8,56	7,82	6,65	4,76	4,49	4,13	3,76	3,50	3,22	2,80	1,56	1,35	1,06	0,89	0,55	0,29
1,75	9,90	8,25	7,47	6,35	4,55	4,31	3,97	3,61	3,36	3,09	2,66	1,50	1,31	1,03	0,87	0,54	0,29
1,80	9,46	7,88	7,10	6,04	4,38	4,15	3,82	3,48	3,23	2,98	2,56	1,46	1,27	1,00	0,85	0,53	0,27

Above discharge data (Amps/watts) is average values after batteries are fully charged.

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

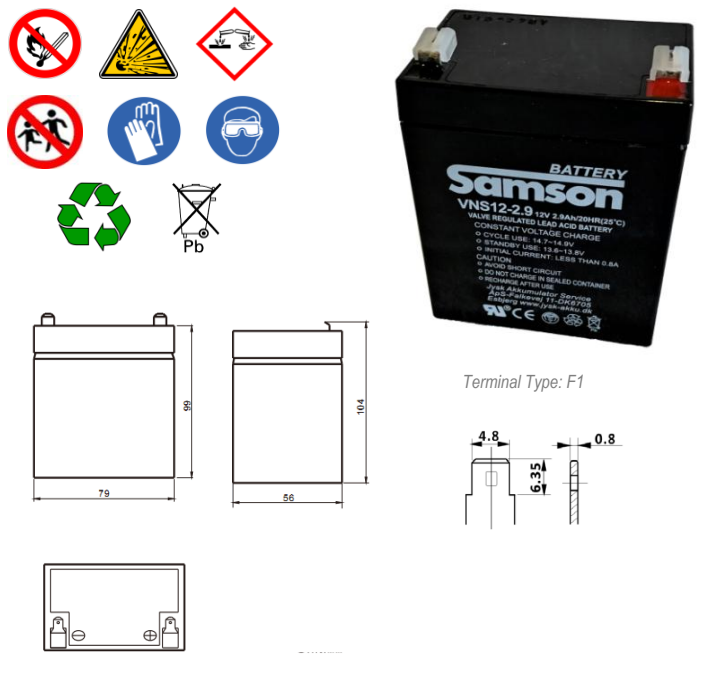
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Battery Picture & Terminal Layout



Dimension & Weight

Dimension (± 2mm)				Weight (± 2%)
Length	Width	Height	Total Height	
79 mm	56 mm	99 mm	104 mm	1,03 kg
3,1 inch	2,2 inch	3,9 inch	4,1 inch	2,3 lbs

Certificates



Other relevant information

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

Typical Applications

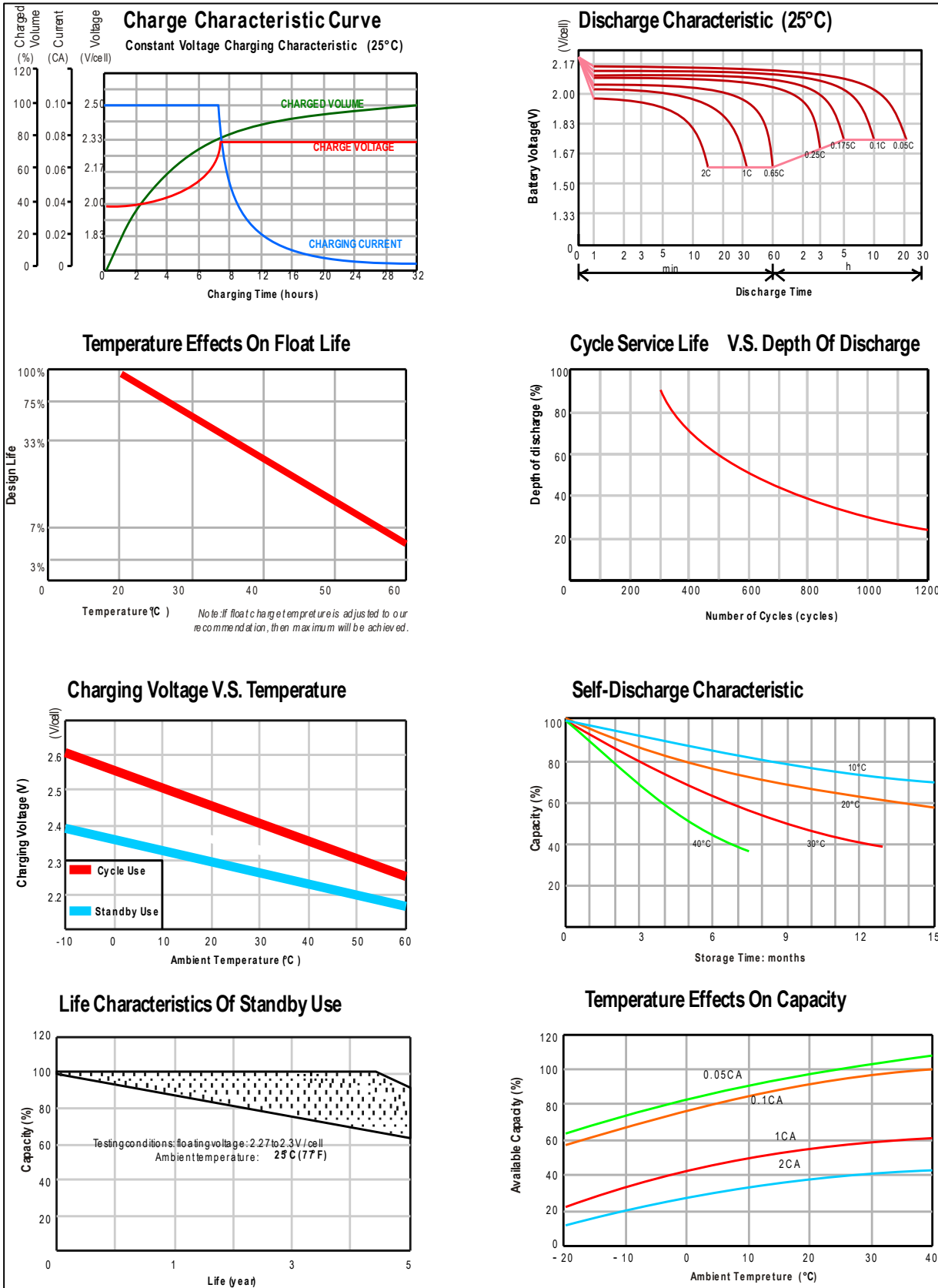
- UPS & EPS
- Security Power Supply
- Power Utility
- Electrical Tavs

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Graphs



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