

# VNS12-1.2

12V 1.2h / 20hr rate



### 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)	500 Cycles
Nominal Capacity @ 25°C /77°F	
20 hour rate 0.06A to 1.75Vpc	1.2 Ah
10 hour rate 0.11A to 1.75Vpc	1.1 Ah

### Internal Resistance

(Fully charged battery @ 25°C /77°F ) 120 mΩ

Max. Discharge Current @ 25°C /77°F 12 A (5S)

Short Circuit Current 24 A

### Charge Methods: Constant voltage charge @ 25°C /77°F

Cycle Use	14.7~ 14.9V
Max. Current	0.36 A
Max. Current for best battery life	0.25 A
Standby Use	13.6 - 13.8V

Operating Temperature Range -30 ~ 50°C

Notes: battery voltage must be adjusted according to temperature.

Please refer to our recommendation.

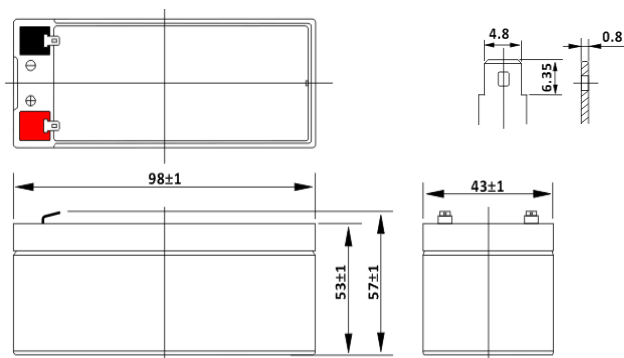
### Self-Discharge

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

### Battery Picture & Terminal Layout



Terminal Type: F1



### Dimension & Weight

Length	Dimension (± 2mm)			Total Height	Weight (± 2%)
	Width	Height			
98 mm	43 mm	53 mm	57 mm	0,5 kg	
3,9 inch	1,7 inch	2,1 inch	2,2 inch	1,1 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 Tovs

### 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	2,73	2,08	1,78	1,48	1,25	1,09	1,00	0,91	0,83	0,77	0,72	0,37	0,29	0,25	0,22	0,120	0,062
1,65	2,61	1,99	1,71	1,42	1,21	1,05	0,96	0,88	0,77	0,75	0,71	0,37	0,28	0,24	0,21	0,120	0,062
1,70	2,50	1,91	1,63	1,36	1,16	1,01	0,93	0,85	0,78	0,73	0,69	0,36	0,28	0,24	0,21	0,110	0,061
1,75	2,38	1,82	1,56	1,30	1,12	0,97	0,89	0,82	0,76	0,71	0,68	0,35	0,27	0,23	0,21	0,110	0,060
1,80	2,27	1,73	1,49	1,24	1,08	0,93	0,86	0,79	0,74	0,69	0,66	0,34	0,26	0,23	0,20	0,110	0,059

### 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	4,91	3,74	3,20	2,66	2,25	2,07	1,90	1,73	1,58	1,46	1,42	0,73	0,57	0,49	0,43	0,24	0,124
1,65	4,70	3,58	3,08	2,56	2,18	2,00	1,82	1,67	1,46	1,43	1,40	0,73	0,55	0,47	0,41	0,24	0,124
1,70	4,50	3,44	2,93	2,45	2,09	1,92	1,77	1,62	1,48	1,39	1,36	0,71	0,55	0,47	0,41	0,22	0,122
1,75	4,28	3,28	2,81	2,34	2,02	1,84	1,69	1,56	1,44	1,35	1,34	0,69	0,53	0,45	0,41	0,22	0,120
1,80	4,09	3,11	2,68	2,23	1,94	1,77	1,63	1,50	1,41	1,31	1,30	0,67	0,51	0,45	0,39	0,22	0,118

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

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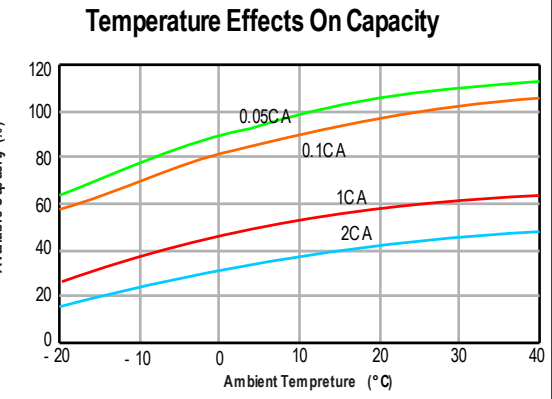
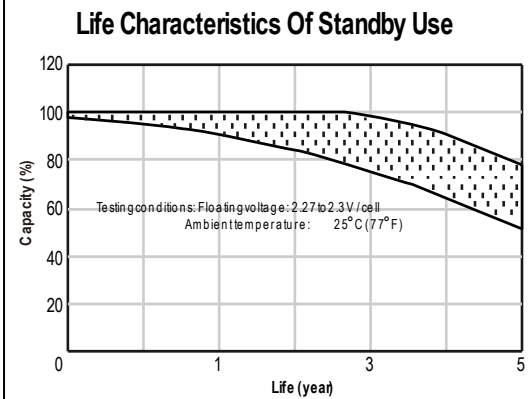
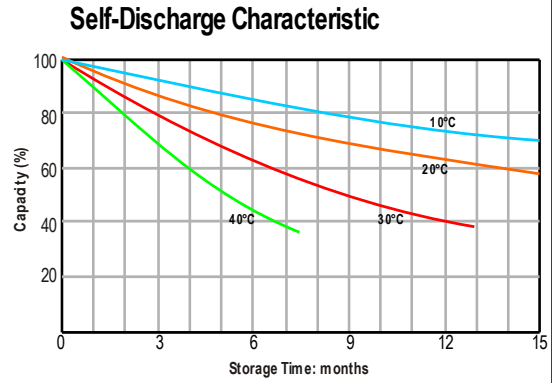
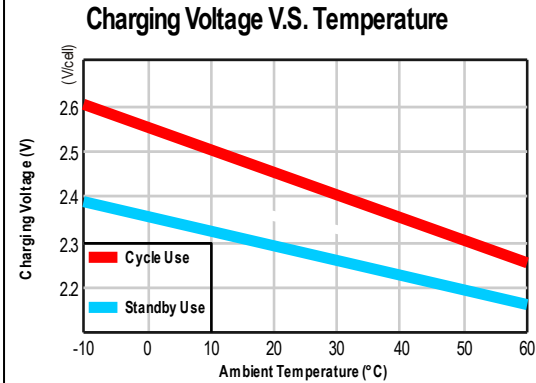
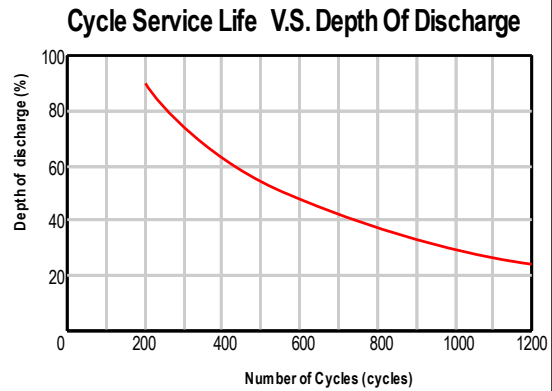
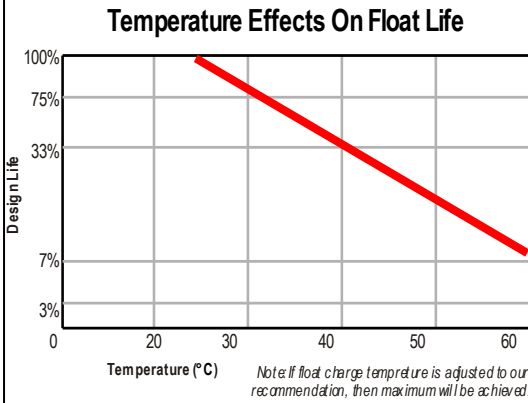
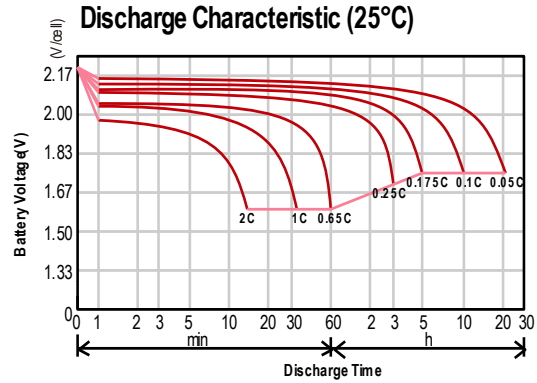
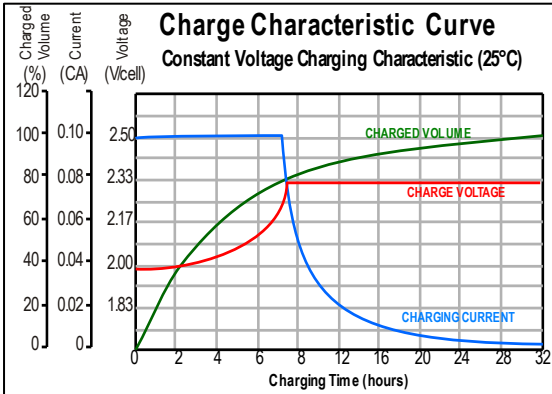
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Graphs



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