

# NS12-3.2

12V 3.2Ah / 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.

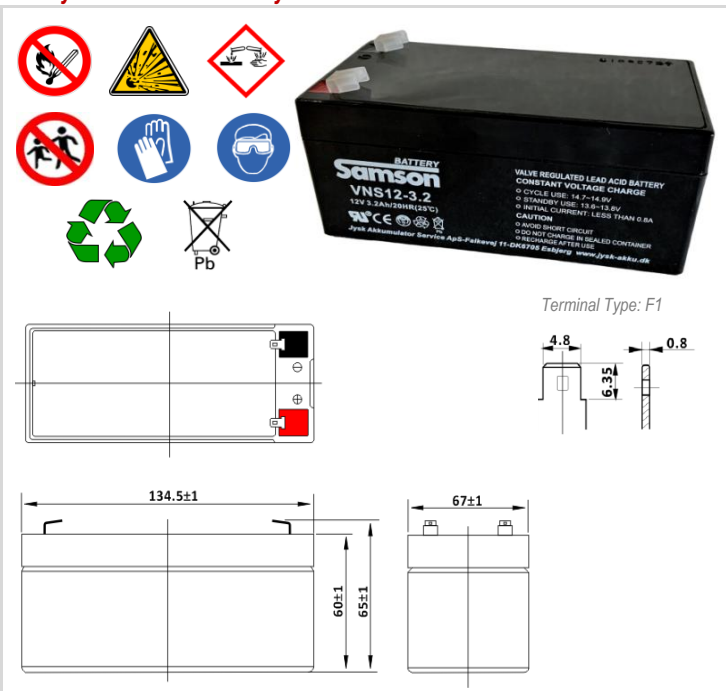
### Battery Features

- 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

<b>Design floating Life @ 25°C (77°F)</b>	5 years
<b>Design Life Cycles @ 50% D.O.D. (25°C)</b>	600 Cycles
<b>Nominal Capacity @ 25°C /77°F</b>	
20 hour rate	0.16A to 1.75Vpc 3.2 Ah
10 hour rate	0.3A to 1.75Vpc 3.0 Ah
<b>Internal Resistance</b>	
(Fully charged battery @ 25°C /77°F )	59 mΩ
<b>Max. Discharge Current @ 25°C /77°F</b>	32 A (5S)
<b>Short Circuit Current</b>	55 A
<b>Charge Methods: Constant voltage charge @ 25°C /77°F</b>	
Cycle Use	14.7 ~ 14.9V
Max. Current	0.96 A
Max. Current for best battery life	0.8 A
Standby Use	13.6 - 13.8V
<b>Operating Temperature Range</b>	-30 ~ 50°C
<i>Notes: battery voltage must be adjusted according to temperature. Please refer to our recommendation.</i>	
<b>Self-Discharge</b>	
3% of capacity declined per month @ 25°C (77°F).	

### Battery Picture & Terminal Layout



### Dimension & Weight

Dimension (± 2mm)				Weight (± 2%)
Length	Width	Height	Total Height	
134.5 mm	67 mm	60 mm	65 mm	1,23 kg
5,3 inch	2,6 inch	2,4 inch	2,6 inch	2,7 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 Tows

### 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	7,27	5,55	4,74	3,94	3,34	2,89	2,66	2,42	2,22	2,06	1,93	1,00	0,78	0,67	0,57	0,31	0,164
1,65	6,97	5,32	4,55	3,78	3,22	2,79	2,57	2,35	2,16	2,01	1,89	0,98	0,76	0,65	0,57	0,31	0,164
1,70	6,66	5,08	4,35	3,62	3,10	2,68	2,47	2,26	2,09	1,95	1,85	0,95	0,74	0,64	0,56	0,31	0,160
1,75	6,35	4,85	4,16	3,47	2,99	2,58	2,38	2,19	2,03	1,90	1,81	0,93	0,72	0,62	0,55	0,30	0,160
1,80	6,04	4,61	3,97	3,32	2,88	2,49	2,30	2,12	1,97	1,85	1,77	0,91	0,69	0,60	0,54	0,30	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	13,93	10,64	9,05	7,46	6,22	5,47	5,08	4,69	4,44	4,12	3,87	2,05	1,52	1,34	1,05	0,64	0,35
1,65	13,37	10,21	8,68	7,16	5,99	5,25	4,87	4,49	4,26	3,95	3,71	1,95	1,48	1,31	1,03	0,63	0,34
1,70	12,81	9,78	8,33	6,88	5,79	5,06	4,69	4,32	4,09	3,78	3,55	1,86	1,44	1,28	1,01	0,63	0,33
1,75	12,35	9,42	8,02	6,61	5,56	4,84	4,48	4,12	3,90	3,61	3,39	1,77	1,40	1,24	0,99	0,62	0,33
1,80	11,78	8,99	7,66	6,33	5,36	4,66	4,31	3,96	3,76	3,48	3,28	1,70	1,35	1,21	0,97	0,61	0,31

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

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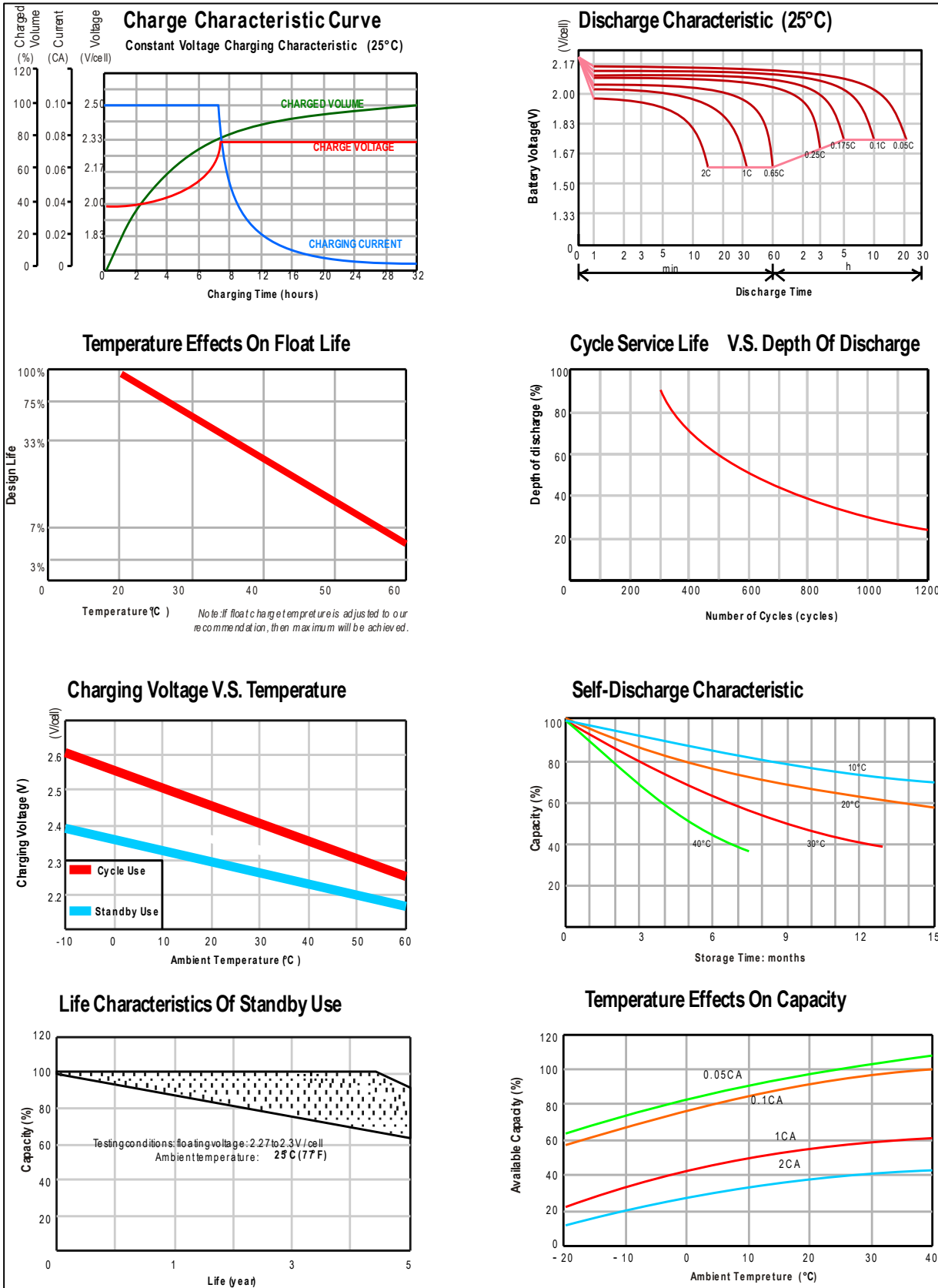
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Graphs



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