

# VNM12-35

12V 35Ah / 10h



## Introduction

Samson NM series is designed for standby use with 10-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 float service, UPS/EPS, medical equipment, telecom, photovoltaic, control system 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)	10 years
Design Life Cycles @ 50% D.O.D. (25°C)	550 Cycles
<b>Nominal Capacity @ 25°C / 77°F</b>	
20 hour rate 1.8A to 1.75Vpc	36 Ah
10 hour rate 3.51A to 1.75Vpc	35.1 Ah

## Internal Resistance

(Fully charged battery @ 25°C / 77°F) 8mΩ

Max. Discharge Current @ 25°C / 77°F 350 A (5S)

Short Circuit Current 600 A

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

Cycle Use	14.7 ~ 14.9V
Max. Current	10.5 A
Max. Current for best battery life	8.8 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).

## 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	83,55	63,78	55,10	46,42	39,29	35,39	33,00	30,61	28,62	26,95	25,68	13,92	9,91	8,23	6,73	3,59	1,82
1,65	79,34	60,56	52,60	44,64	38,23	34,45	32,18	29,91	28,04	26,49	25,33	13,65	9,72	8,05	6,57	3,58	1,82
1,70	76,06	58,06	50,53	42,99	37,01	33,31	31,13	28,95	27,17	25,70	24,63	13,19	9,49	7,86	6,42	3,54	1,82
1,75	72,55	55,38	48,27	41,16	35,60	32,05	30,02	27,98	26,35	25,03	24,11	12,83	9,29	7,69	6,28	3,51	1,80
1,80	68,81	52,52	45,90	39,27	34,20	30,76	28,85	26,93	25,42	24,22	23,41	12,37	9,06	7,50	6,12	3,42	1,78

## 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	145,10	110,76	97,48	84,19	73,39	66,27	61,56	56,85	52,85	49,57	46,82	25,74	18,73	15,54	12,80	7,17	3,78
1,65	139,95	106,83	94,21	81,59	71,46	64,52	59,98	55,45	51,63	48,52	45,95	25,21	18,56	15,37	12,63	7,10	3,78
1,70	134,57	102,72	90,71	78,70	69,18	62,47	58,17	53,88	50,29	47,42	45,07	24,61	18,21	15,10	12,44	6,96	3,73
1,75	128,72	98,26	86,92	75,58	66,72	60,25	56,19	52,12	48,77	46,14	44,03	23,82	17,69	14,73	12,21	6,91	3,66
1,80	122,40	93,43	82,82	72,21	64,09	57,85	54,02	50,20	47,09	44,68	42,81	22,98	17,23	14,36	11,94	6,84	3,63

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.

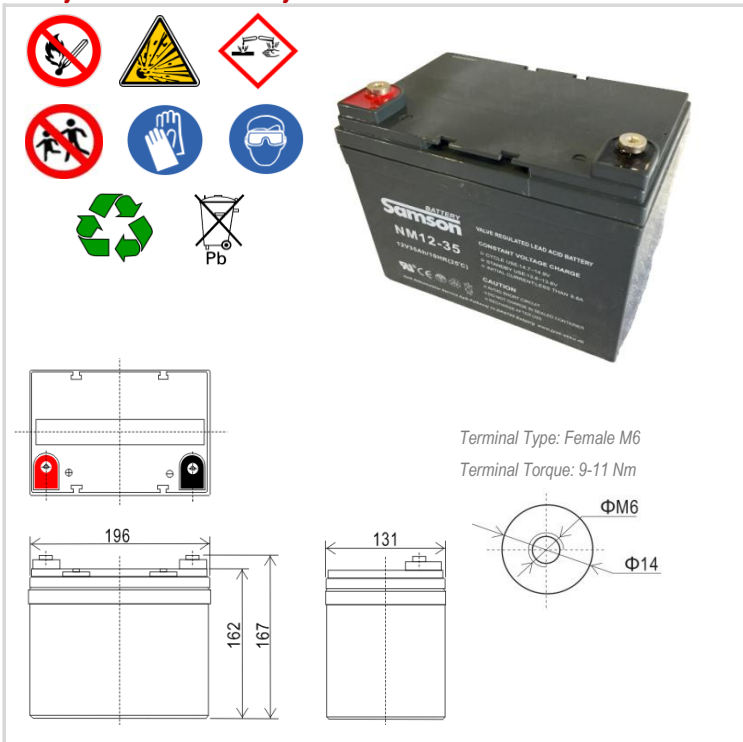
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Version No.:

23-04-2021

## Battery Picture & Terminal Layout



## Dimension & Weight

Length	Dimension (± 2mm)			Total Height	Weight (± 2%)
	Width	Height	Total Height		
196 mm	131 mm	162 mm	167 mm	10,45 kg	
7,7 inch	5,2 inch	6,4 inch	6,6 inch	23,0 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

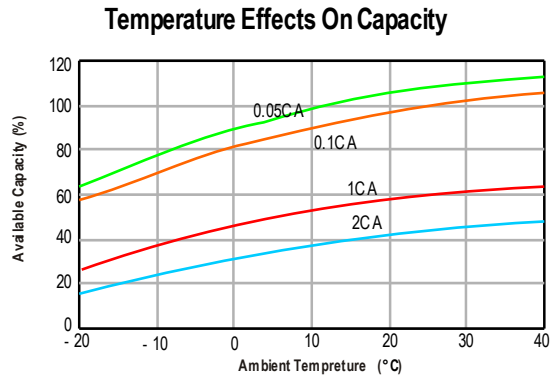
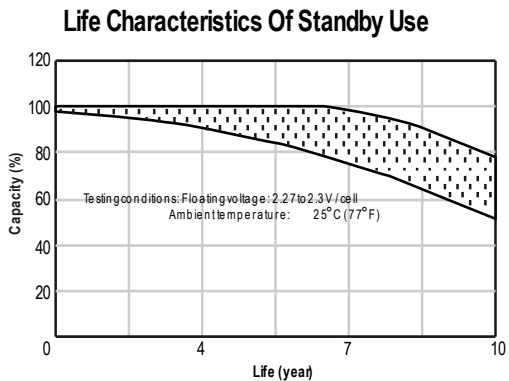
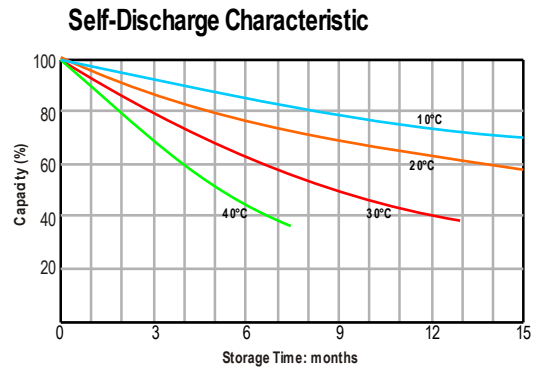
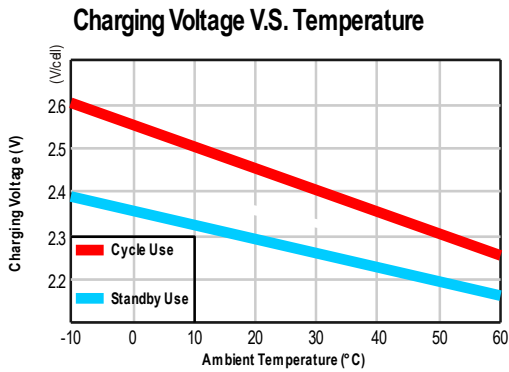
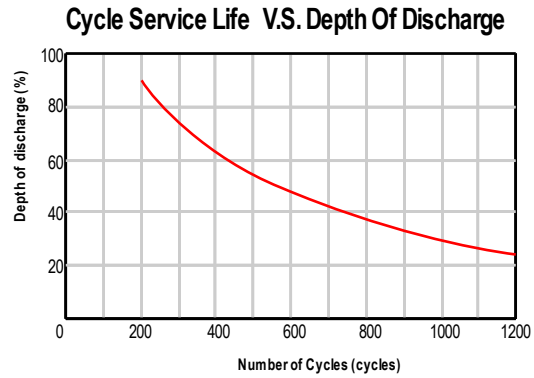
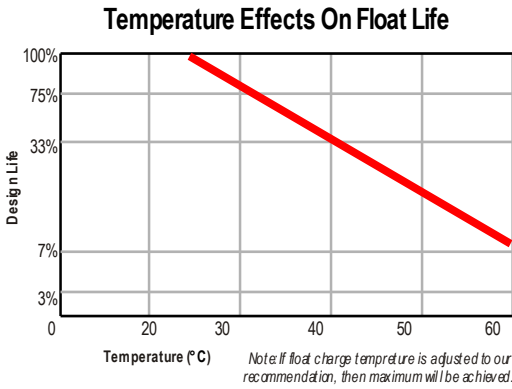
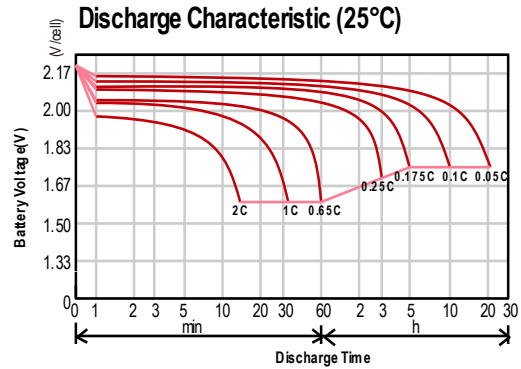
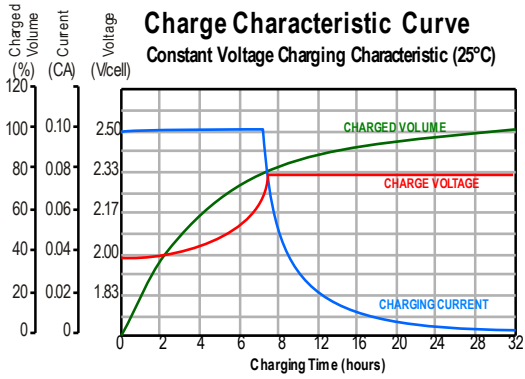
- Telecommunications  Power Utility  Data Center  UPS & EPS

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Graphs



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