

# VNH12-37W

12V 37 W/Cell 15min (9Ah / 20hr rate)



### Introduction

**Samson NH (high rate) series** is primarily for heavy load discharge in short time backup especially in UPS applications. Designed with a high-density plate technology, the series battery is featured of high consistency, excellent performance and reliable standby service life.

### Battery Features

- High rate output aimed at the UPS market
- 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 0,45 A to 1.75V/cell	9 Ah
Watt @ 15min to 1.67V/cell	37 W/cell
Watt @ 10min to 1.67V/cell	48 W/cell
Internal Resistance	
(Fully charged battery @ 25°C / 77°F )	16mΩ
Max. Discharge Current @ 25°C / 77°F	130A (5S)
Short Circuit Current	150 A
Charge Methods: Constant voltage charge @ 25°C / 77°F	
Cycle Use	14.7 ~ 14.9V
Max. Current	2.0A
Standby Use	13.6 - 13.8V
Operating Temperature Range	
	-30 ~ 50°C
Notes: battery voltage must be adjusted according to temperature.	
Effect of temperature on float charge voltage: -3mV / °C / Cell.	
Self-Discharge	
	3% of capacity declined per month @ 25°C (77°F).

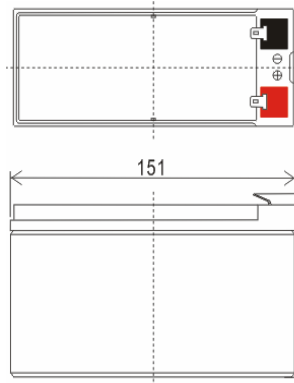
### Typical Applications

- UPS/EPS (High rate)
- Emergency lighting
- High power backup supply
- Electric starting
- Emergency power supply

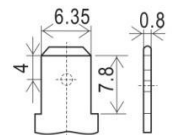
### Certificates



### Battery Picture & Terminal Layout



Terminal Type: F2



### Dimension & Weight

Length	Dimension (± 2mm)			Total Height	Weight (± 2%)
	Width	Height	Height		
151 mm	65 mm	94 mm	99 mm	2,58 kg	
5,9 inch	2,6 inch	3,7 inch	3,9 inch	5,7 lbs	

### Constant Current Discharge (Amperes @ 25°C / 77°F)

V/cell	5min	10min	15min	20min	30min	45min	55min	1hr	2hr
1,60	41,10	24,42	18,43	15,09	11,29	8,58	7,71	6,97	3,84
1,65	39,55	23,59	18,33	14,81	11,19	8,57	7,55	6,90	3,84
1,70	38,73	23,19	18,05	14,79	11,12	8,55	7,52	6,87	3,81
1,75	35,44	22,26	17,53	14,48	11,04	8,53	7,49	6,86	3,78
1,80	32,12	20,65	16,71	13,89	10,75	8,35	7,28	6,78	3,75

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

V/cell	5min	10min	15min	20min	30min	45min	55min	1hr	2hr
1,60	83,8	50,1	37,5	30,41	22,39	16,71	15,59	13,56	7,73
1,65	81,7	49,6	37,4	30,32	22,36	16,61	15,01	13,48	7,56
1,67	<b>80,0</b>	<b>48,6</b>	<b>37,1</b>	<b>30,27</b>	<b>22,34</b>	<b>16,54</b>	<b>14,73</b>	<b>13,43</b>	<b>7,41</b>
1,70	76,4	47,4	36,7	29,44	21,68	16,26	14,38	13,25	7,18
1,75	74,0	45,8	36,2	28,82	21,50	16,11	13,88	13,00	6,93
1,80	65,5	42,2	34,2	28,05	21,43	15,89	13,68	12,69	6,77

Above discharge data is average values after batteries are fully charged.

### Other relevant information

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

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

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## Graphs

