

# NH12-250W

12V 250 W/Cell 15min (60Ah/10hr 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)	10 years
Design Life Cycles @ 50% D.O.D. (25°C)	600 Cycles
Nominal Capacity @ 25°C /77°F	
10 hour rate 6 A to 1.75V/cell	60 Ah
Watt @ 15min to 1.67V/cell	250 W/cell
Watt @ 10min to 1.67V/cell	291 W/cell
Internal Resistance	
(Fully charged battery @ 25°C /77°F )	6mΩ
Max. Discharge Current @ 25°C /77°F	830A (5S)
Short Circuit Current	1000 A
Charge Methods: Constant voltage charge @ 25°C /77°F	
Cycle Use	14.7 ~ 14.9V
Max. Current	13.7A
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

### Maintenance & Caution

Every three months, recommend equalization charge for one time.  
Equalization charge method: constant voltage charge at: 14.4 - 14.7V for 24h.

### Certificates



### Battery Picture & Terminal Layout

Terminal Type: Female M6  
Terminal Torque: 9-11 Nm

Dimensions: Length 229 mm, Width 139 mm, Height 210 mm, Total Height 215 mm.

Terminal diameters: ΦM6, Φ16.

### Dimension & Weight

Length	Width	Dimension (± 2mm)		Weight (± 2%)
		Height	Total Height	
229 mm	139 mm	210 mm	215 mm	18,4 kg
9,0 inch	5,5 inch	8,3 inch	8,5 inch	40,6 lbs

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

V/cell	5min	10min	15min	20min	30min	45min	55min	1hr	2hr
1,60	212,69	147,28	124,18	105,19	77,99	55,42	50,67	45,09	25,78
1,65	204,90	142,43	123,53	103,26	77,27	55,33	49,60	44,63	25,74
1,70	200,74	140,13	121,69	103,12	76,82	55,22	49,46	44,47	25,56
1,75	184,12	134,63	118,20	100,93	76,23	55,12	49,26	44,39	25,35
1,80	167,34	125,20	112,76	96,87	74,27	53,94	47,84	43,84	25,14

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

V/cell	5min	10min	15min	20min	30min	45min	55min	1hr	2hr
1,60	434,5	300,2	253,9	214,94	158,24	113,17	105,58	91,84	52,34
1,65	423,6	297,5	251,8	213,63	157,63	112,25	101,68	91,53	51,18
1,67	415,0	291,3	250,5	209,88	155,16	112,03	99,81	90,99	50,22
1,70	396,3	284,0	247,3	208,12	153,22	110,11	97,43	89,74	48,62
1,75	383,7	274,4	245,3	203,69	152,00	109,10	94,03	88,07	46,92
1,80	339,6	263,1	231,5	198,30	151,47	107,61	92,67	85,96	45,89

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

