

NM12-250

12V 250Ah / 10hr rate**BATTERY**
Samson

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.

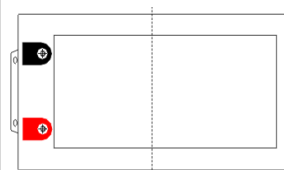
Battery Features

- Increase durability and deep cycle ability for heavy demand applications
- 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

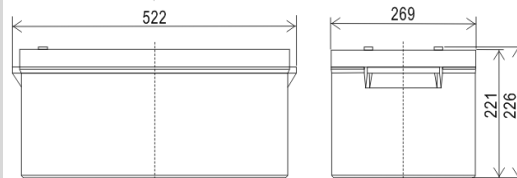
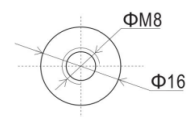
Design floating Life @ 20°C (68°F)	10 years
Design Life Cycles @ 50% D.O.D. (25°C)	550 Cycles
Nominal Capacity @ 25°C / 77°F	
20 hour rate	13.18A to 1.75Vpc 263.6 Ah
10 hour rate	25.71A to 1.75Vpc 257.1 Ah
Internal Resistance	
(Fully charged battery @ 25°C / 77°F)	3mΩ
Max. Discharge Current @ 25°C / 77°F	2500 A (5S)
Short Circuit Current	3400 A
Charge Methods: Constant voltage charge @ 25°C / 77°F	
Cycle Use	14.7 ~ 14.9V
Max. Current	66 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: Female M8

Terminal Torque: 11-13 Nm



Dimension & Weight

Dimension (± 2mm)				Weight (± 2%)
Length	Width	Height	Total Height	
522 mm	269 mm	221 mm	226 mm	70,5 kg
20,6 inch	10,6 inch	8,7 inch	8,9 inch	155,4 lbs

Certificates



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**

Typical Applications

○ Telecommunications ○ Power Utility ○ Data Center ○ UPS & EPS

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	506,0	386,2	333,7	281,1	237,9	240,7	224,5	209,6	196,0	184,2	188,2	102,0	72,60	60,29	49,29	26,34	13,30
1,65	480,5	366,8	318,6	270,4	231,5	234,3	218,9	204,8	192,0	181,0	185,6	100,1	71,20	59,03	48,16	26,21	13,30
1,70	460,6	351,6	306,0	260,3	224,1	226,6	211,7	198,2	186,0	175,6	180,5	96,7	69,56	57,64	47,02	25,96	13,30
1,75	439,4	335,4	292,3	249,3	215,6	218,0	204,2	191,6	180,4	171,1	176,7	94,0	68,05	56,37	46,01	25,71	13,18
1,80	416,7	318,1	278,0	237,8	207,1	209,3	196,2	184,4	174,1	165,5	171,6	90,6	66,40	54,98	44,87	25,04	13,05

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	878,7	670,8	590,3	509,9	444,5	450,8	418,8	389,3	361,9	338,8	343,1	188,6	137,2	113,9	93,79	52,55	27,72
1,65	847,6	647,0	570,6	494,1	432,8	438,9	408,0	379,7	353,5	331,6	336,7	184,8	136,0	112,6	92,52	52,05	27,72
1,70	815,0	622,1	549,4	476,6	418,9	424,9	395,7	368,9	344,4	324,1	330,3	180,3	133,5	110,7	91,13	51,03	27,35
1,75	779,5	595,1	526,4	457,7	404,1	409,8	382,2	356,9	334,0	315,3	322,6	174,6	129,7	107,9	89,49	50,65	26,85
1,80	741,3	565,8	501,6	437,3	388,1	393,5	367,5	343,7	322,4	305,4	313,7	168,4	126,3	105,2	87,47	50,15	26,61

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

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Graphs

