

# VNM12-230

12V 230Ah / 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 and control 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

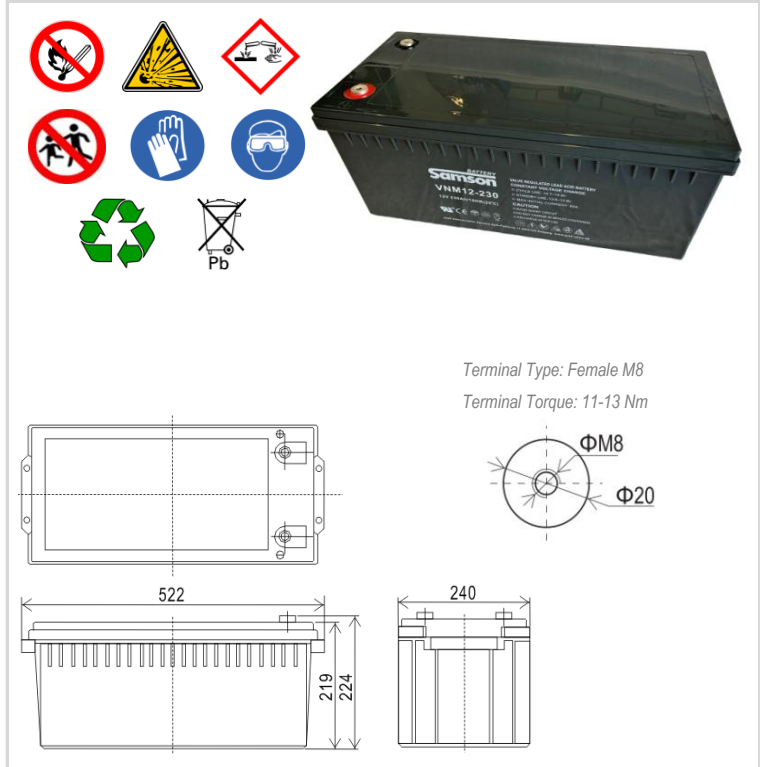
<b>Design floating Life @ 25°C (77°F)</b>	10 years
<b>Design Life Cycles @ 50% D.O.D. (25°C)</b>	550 Cycles
<b>Nominal Capacity @ 25°C / 77°F</b>	
20 hour rate 12.01A to 1.75Vpc	240.2 Ah
10 hour rate 23.42A to 1.75Vpc	234.2 Ah
<b>Internal Resistance</b>	
(Fully charged battery @ 25°C / 77°F )	3mΩ
<b>Max. Discharge Current @ 25°C / 77°F</b>	2300 A (5S)
<b>Short Circuit Current</b>	3380 A
<b>Charge Methods: Constant voltage charge @ 25°C / 77°F</b>	
Cycle Use	14.7 ~ 14.9V
Max. Current	69A
Max. Current for best battery life	57A
Standby Use	13.6 - 13.8V
<b>Operating Temperature Range</b>	-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



## Dimension & Weight

Length	Dimension (± 2mm)			Total Height	Weight (± 2%)
	Width	Height			
522 mm	240 mm	219 mm		224 mm	64,5 kg
20,6 inch	9,4 inch	8,6 inch		8,8 inch	142,2 lbs

## Certificates



## Other relevant information

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

## 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	488,4	372,8	322,1	271,3	229,7	224,9	209,7	195,8	183,1	172,1	171,5	92,96	66,15	54,94	44,92	24,00	12,12
1,65	463,8	354,0	307,5	261,0	223,5	218,9	204,5	191,3	179,4	169,1	169,1	91,16	64,88	53,78	43,88	23,88	12,10
1,70	444,6	339,4	295,4	251,3	216,3	211,7	197,8	185,2	173,8	164,1	164,5	88,09	63,38	52,52	42,84	23,65	12,07
1,75	424,1	323,8	282,2	240,6	208,1	203,7	190,8	179,0	168,6	159,8	161,0	85,65	62,00	51,37	41,92	23,42	12,01
1,80	402,2	307,0	268,3	229,6	199,9	195,5	183,3	172,3	162,6	154,6	156,3	82,57	60,50	50,10	40,88	22,81	11,89

## 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	848,2	647,5	569,8	492,2	429,0	421,2	391,2	363,7	338,1	316,5	312,6	171,8	125,1	103,8	85,46	47,88	25,26
1,65	818,1	624,5	550,8	477,0	417,7	410,0	381,2	354,7	330,3	309,8	306,8	168,4	123,9	102,6	84,30	47,42	25,26
1,70	786,7	600,5	530,3	460,1	404,4	397,0	369,7	344,7	321,7	302,8	301,0	164,3	121,6	100,8	83,04	46,50	24,92
1,75	752,5	574,4	508,1	441,8	390,0	382,9	357,1	333,5	312,0	294,6	294,0	159,1	118,1	98,4	81,54	46,15	24,47
1,80	715,5	546,2	484,2	422,2	374,6	367,6	343,3	321,1	301,2	285,3	285,8	153,4	115,0	95,9	79,70	45,69	24,24

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

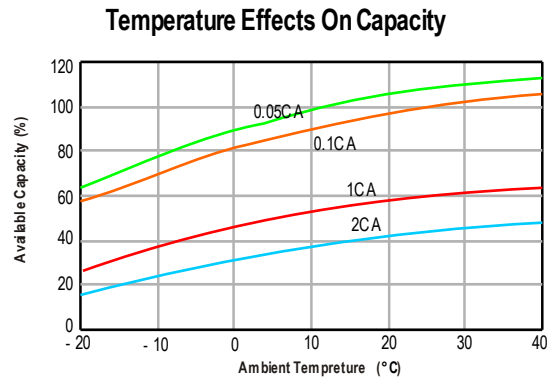
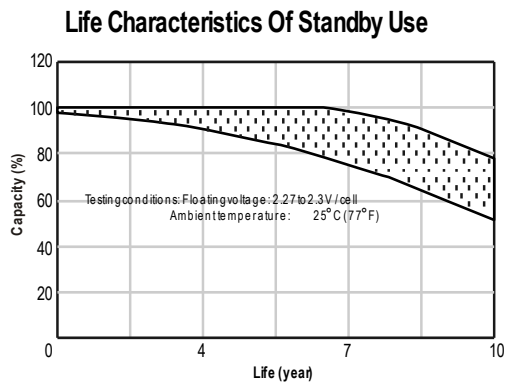
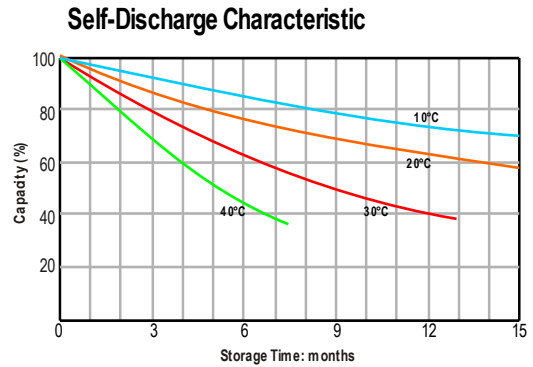
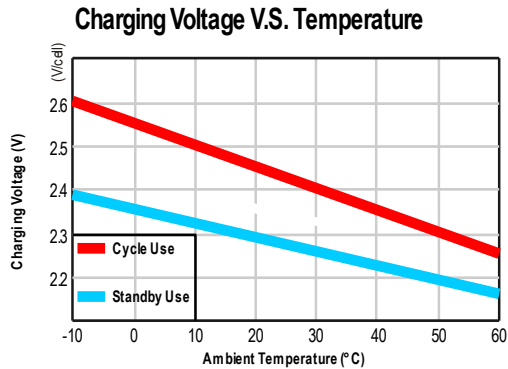
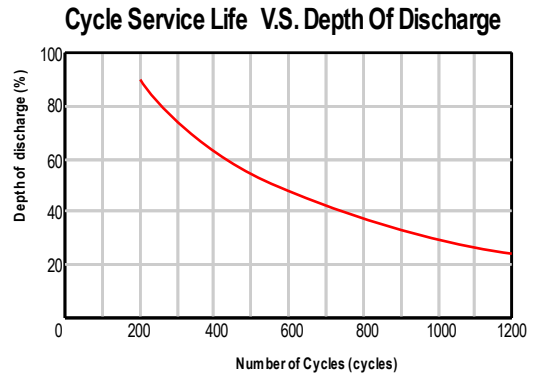
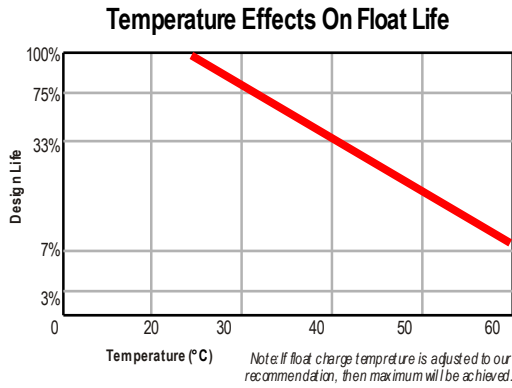
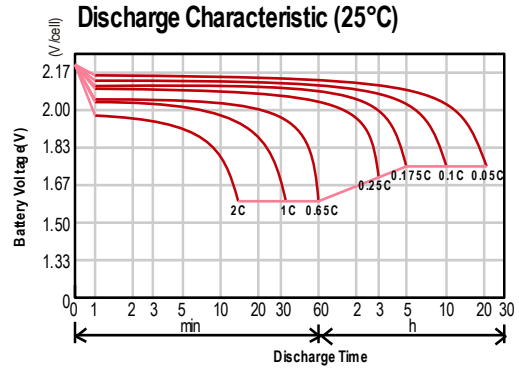
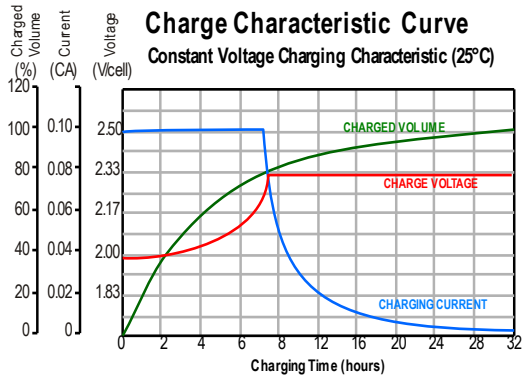
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Graphs



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