

# NH12-80W T3

12V 80 W/Cell 15min (20Ah / 20hr rate)

# BATTERY Samson

### 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 1 A to 1.75V/cell	20 Ah
Watt @ 15min to 1.67V/cell	79 W/cell
Watt @ 10min to 1.67V/cell	104 W/cell
Internal Resistance	
(Fully charged battery @ 25°C /77°F )	9.5mΩ
Max. Discharge Current @ 25°C /77°F	200A (5S)
Short Circuit Current	340 A
Charge Methods: Constant voltage charge @ 25°C /77°F	
Cycle Use	14.7 ~ 14.9V
Max. Current	4.6A
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).

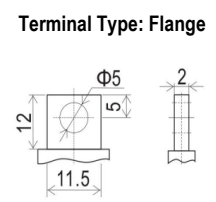
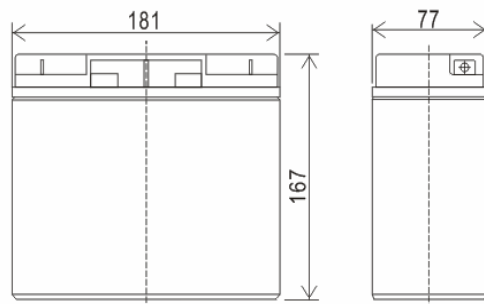
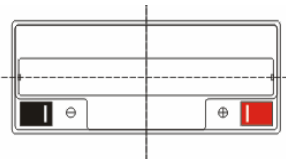
### Typical Applications

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

### Certificates



### Battery Picture & Terminal Layout



### Dimension & Weight

Length	Dimension (± 2mm)			Total Height	Weight (± 2%)
	Width	Height	Height		
181 mm	77 mm	167 mm	167 mm	6,10 kg	
7,1 inch	3,0 inch	6,6 inch	6,6 inch	13,4 lbs	

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

V/cell	5min	10min	15min	20min	30min	45min	55min	1hr	2hr
1,60	89,14	52,33	39,15	32,12	23,66	17,63	16,69	14,99	8,83
1,65	85,71	50,51	38,94	31,49	23,43	17,60	16,33	14,83	8,81
1,70	83,89	49,64	38,33	31,45	23,28	17,56	16,28	14,77	8,75
1,75	76,58	47,58	37,17	30,74	23,09	17,53	16,22	14,75	8,68
1,80	69,20	44,03	35,37	29,43	22,46	17,13	15,74	14,56	8,61

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

V/cell	5min	10min	15min	20min	30min	45min	55min	1hr	2hr
1,60	181,6	107,4	80,7	65,92	48,53	36,22	33,79	29,39	16,75
1,65	177,0	106,5	80,1	65,52	48,23	35,85	32,54	29,12	16,38
<b>1,67</b>	<b>173,4</b>	<b>104,0</b>	<b>79,0</b>	<b>64,62</b>	<b>47,42</b>	<b>35,49</b>	<b>31,94</b>	<b>29,01</b>	<b>16,07</b>
1,70	165,6	101,6	78,9	63,83	46,99	35,24	31,18	28,72	15,56
1,75	160,3	98,2	78,0	62,47	46,62	34,92	30,09	28,19	15,02
1,80	141,9	90,6	73,6	60,82	46,46	34,44	29,66	27,51	14,69

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

### Other relevant information

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

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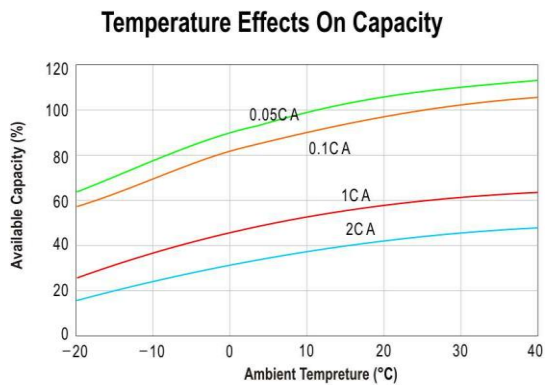
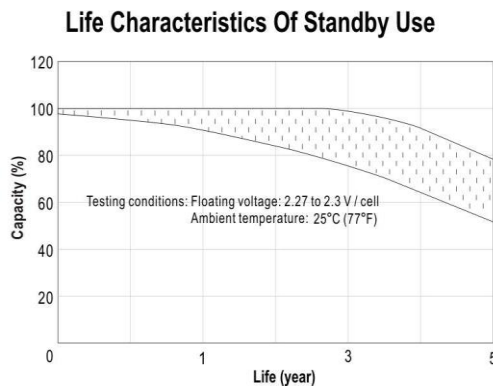
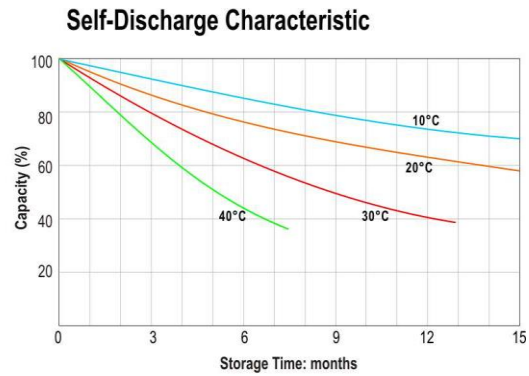
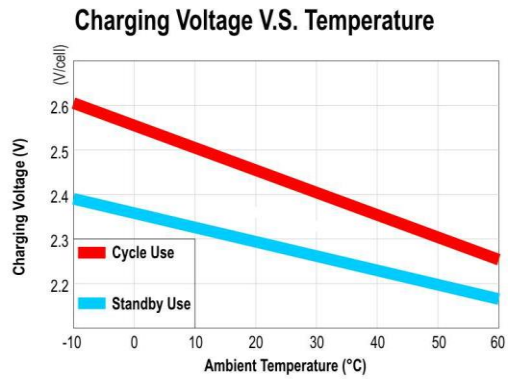
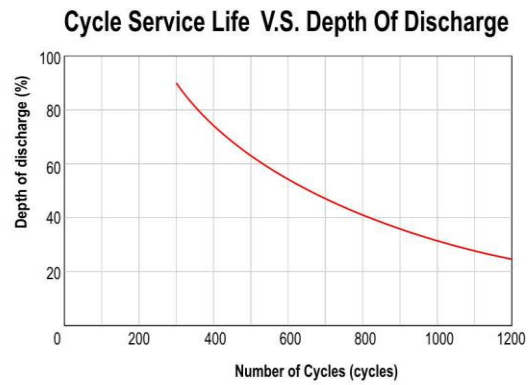
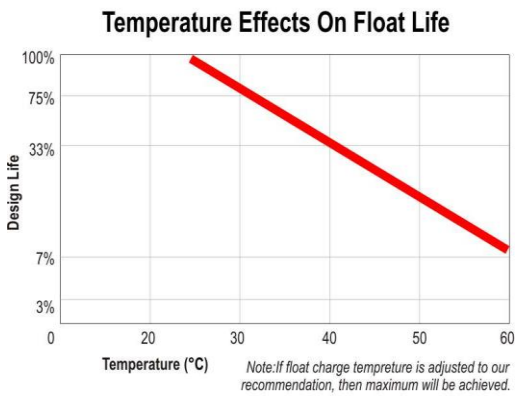
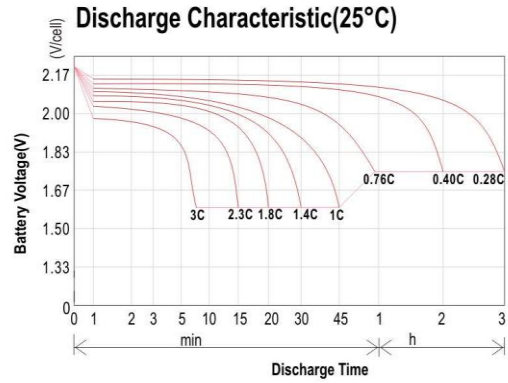
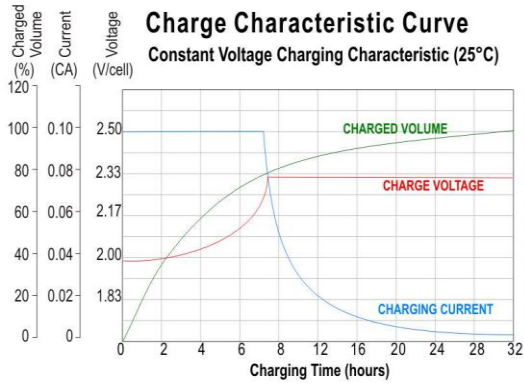
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## Graphs



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