

VNH12-120W

12V 120W/Cell 15min (30Ah / 20h)

BATTERY Samson

Introduction

Samson VNH (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	30 Ah
Watt @ 15min to 1.67V/cell	120 W/cell
Watt @ 10min to 1.67V/cell	157W/cell
Internal Resistance	
(Fully charged battery @ 25°C /77°F)	9mΩ
Max. Discharge Current @ 25°C /77°	300A (5S)
Short Circuit Current	500 A
Charge Methods: Constant voltage charge @ 25°C /77°F	
Cycle Use	14.7 ~ 14.9V
Max. Current	9.0 A
Max. Current for best battery life	6.7 A
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: $-3mV / ^\circ C / Cell$.

Self-Discharge

3% of capacity declined per month @ 25°C (77°F).

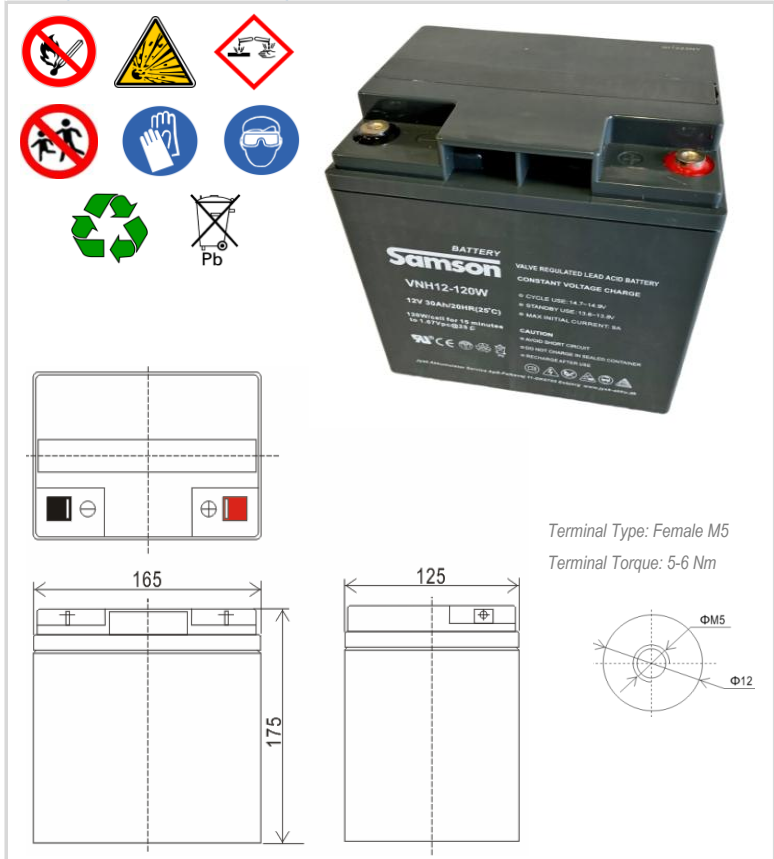
Typical Applications

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

Certificates



Battery Picture & Terminal Layout



Terminal Type: Female M5
Terminal Torque: 5-6 Nm

Dimension & Weight

Length	Dimension (± 2mm)			Total Height	Weight (± 2%)
	Width	Height	Height		
165 mm	125 mm	175 mm	175 mm	8,60 kg	
6,5 inch	4,9 inch	6,9 inch	6,9 inch	19,0 lbs	

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

V/cell	3min	5min	10min	15min	20min	30min	45min	1hr	2hr
1,60	150,70	132,53	79,85	59,10	50,87	36,13	26,12	21,58	12,63
1,65	150,00	127,62	77,19	58,79	49,93	35,77	26,08	21,36	12,61
1,70	147,65	125,00	75,93	57,90	49,86	35,56	26,02	21,28	12,53
1,75	143,31	114,55	72,92	56,20	48,79	35,27	25,97	21,24	12,43
1,80	136,55	103,99	67,76	53,55	46,82	34,32	25,40	20,97	12,32

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

V/cell	3min	5min	10min	15min	20min	30min	45min	1hr	2hr
1,60	311,4	269,8	162,5	122,1	103,19	75,97	54,33	44,09	25,13
1,65	308,6	263,1	161,1	121,1	102,56	75,68	53,89	43,94	24,57
1,67	307,3	257,7	157,7	120,5	100,76	74,49	53,78	43,68	24,11
1,70	303,2	246,1	153,8	118,9	99,92	73,56	52,86	43,08	23,34
1,75	300,6	238,3	148,6	117,9	97,79	72,97	52,38	42,28	22,52
1,80	283,8	210,9	137,1	111,3	95,20	72,72	51,66	41,27	22,03

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

Other relevant information

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

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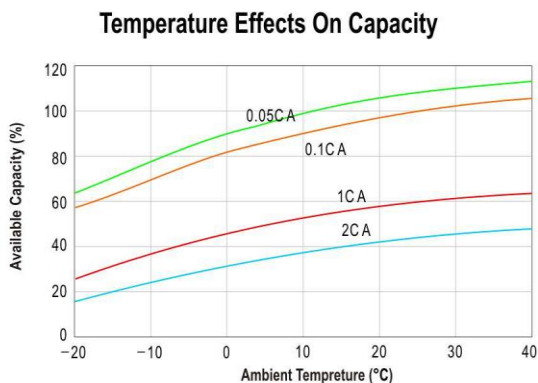
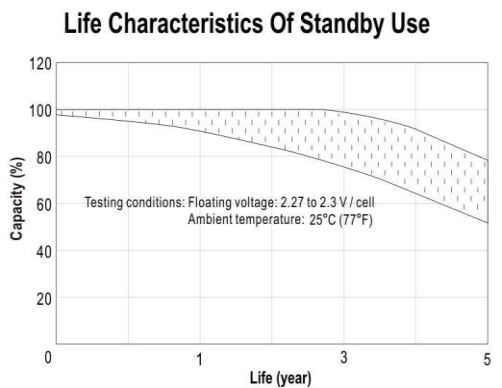
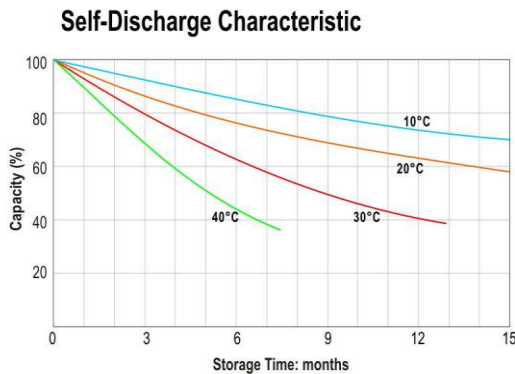
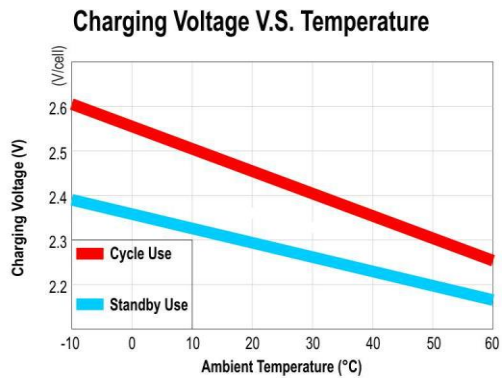
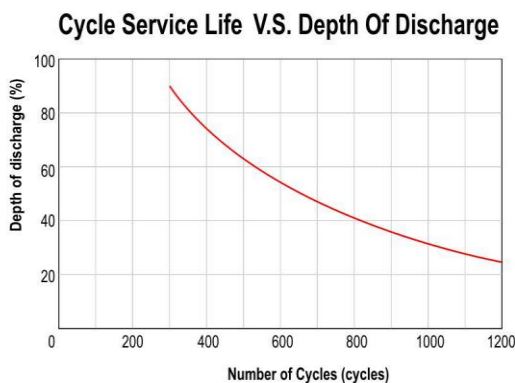
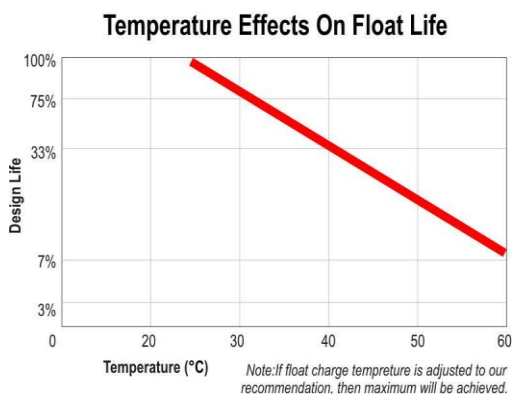
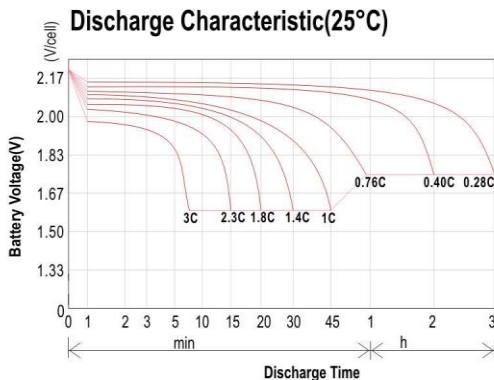
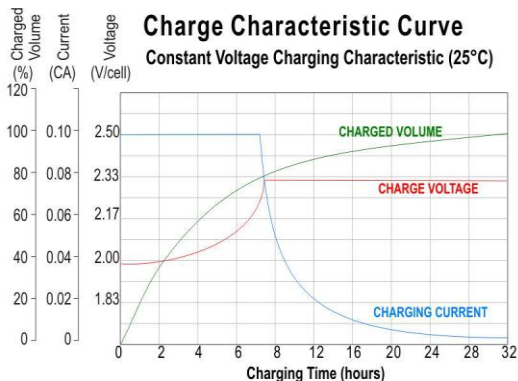
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Graphs



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