

NS12-18

12V18Ah / 20hr rate

BATTERY
Genergy

Introduction

Genergy NS UPS (4.5Ah-28Ah) series is designed for standby use with 5-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 UPS/EPS, medical equipment, emergency light and security system.

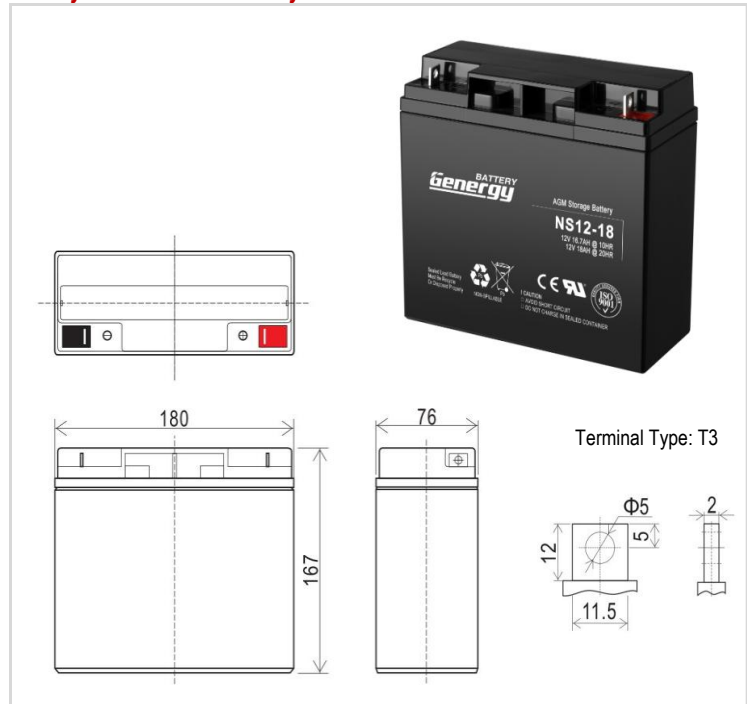
Battery Features

- 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
Nominal Capacity @ 25°C /77°F	
20 hour rate 0.90A to 1.75Vpc	18 Ah
10 hour rate 1.70A to 1.75Vpc	17 Ah
Internal Resistance	
(Fully charged battery @ 25°C /77°F)	16 mΩ
Max. Discharge Current @ 25°C /77°F	270 A (5S)
Charge Methods: Constant voltage charge @ 25°C /77°F	
Cycle Use	14.7 ~ 14.9V
Max. Current	4.3 A
Standby Use	13.6 - 13.8V
Operating Temperature Range	-30 ~ 50°C
<i>Notes: battery voltage must be adjusted according to temperature.</i>	
<i>Please refer to our recommendation.</i>	
Self-Discharge	
3% of capacity declined per month @ 25°C (77°F).	

Battery Picture & Terminal Layout



Dimension & Weight

Length	Dimension (± 2mm)			Weight (± 2%)
	Width	Height	Total Height	
180 mm	76 mm	167 mm	167 mm	5.6 kg
7.1 inch	3.0 inch	6.6 inch	6.6 inch	12.3 lbs

Typical Applications

- UPS & EPS
- Security Power Supply
- Power Utility
- Electrical Toys

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	49.97	38.15	32.60	27.04	22.74	19.86	18.22	16.58	15.20	14.01	13.18	6.79	4.83	3.76	3.25	1.78	0.93
1.65	47.86	36.54	31.25	25.97	21.94	19.14	17.59	16.04	14.75	13.65	12.90	6.63	4.71	3.68	3.20	1.75	0.93
1.70	45.75	34.92	29.90	24.88	21.10	18.40	16.95	15.49	14.29	13.29	12.63	6.47	4.62	3.61	3.15	1.73	0.90
1.75	43.64	33.31	28.57	23.82	20.32	17.70	16.34	14.97	13.85	12.93	12.36	6.31	4.49	3.52	3.10	1.70	0.90
1.80	41.53	31.70	27.25	22.80	19.60	17.06	15.76	14.47	13.43	12.58	12.09	6.16	4.35	3.42	3.04	1.68	0.88

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	95.72	73.07	62.15	51.22	43.10	37.56	34.83	32.10	29.86	28.08	26.69	13.89	9.58	7.56	5.93	3.61	1.96
1.65	91.85	70.12	59.64	49.16	41.48	36.04	33.39	30.75	28.60	26.90	25.61	13.26	9.35	7.39	5.83	3.57	1.91
1.70	87.98	67.16	57.22	47.28	40.14	34.74	32.13	29.53	27.43	25.77	24.52	12.63	9.12	7.22	5.73	3.54	1.88
1.75	84.81	64.74	55.07	45.40	38.53	33.21	30.70	28.18	26.17	24.60	23.44	12.00	8.86	7.04	5.62	3.50	1.87
1.80	80.94	61.79	52.65	43.52	37.19	31.96	29.54	27.12	25.19	23.72	22.65	11.54	8.58	6.82	5.47	3.45	1.77

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

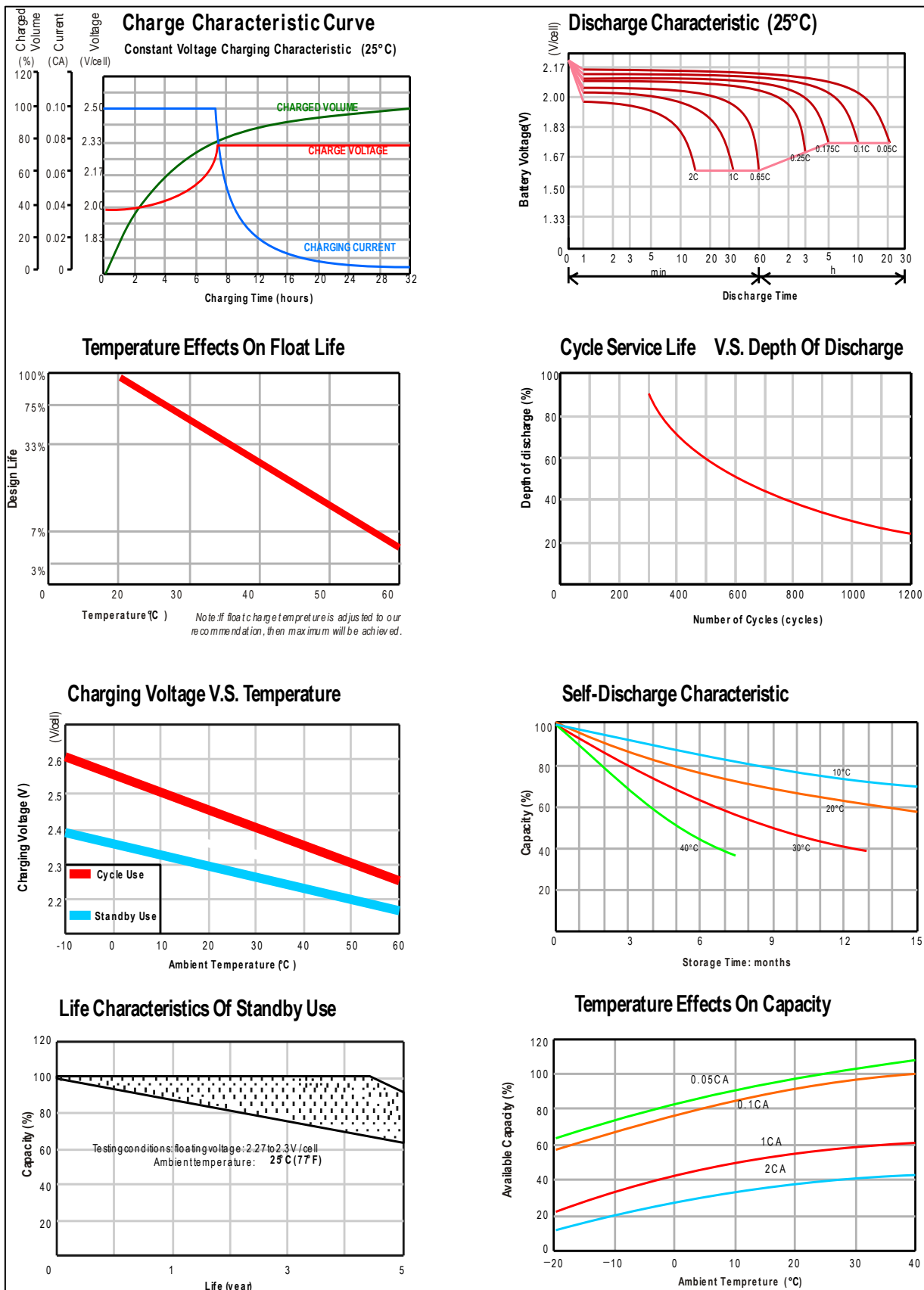
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Graphs



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