

NM12-120

12V120Ah / 10hr rate



Introduction

Genergy NM (31Ah-250Ah) 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.

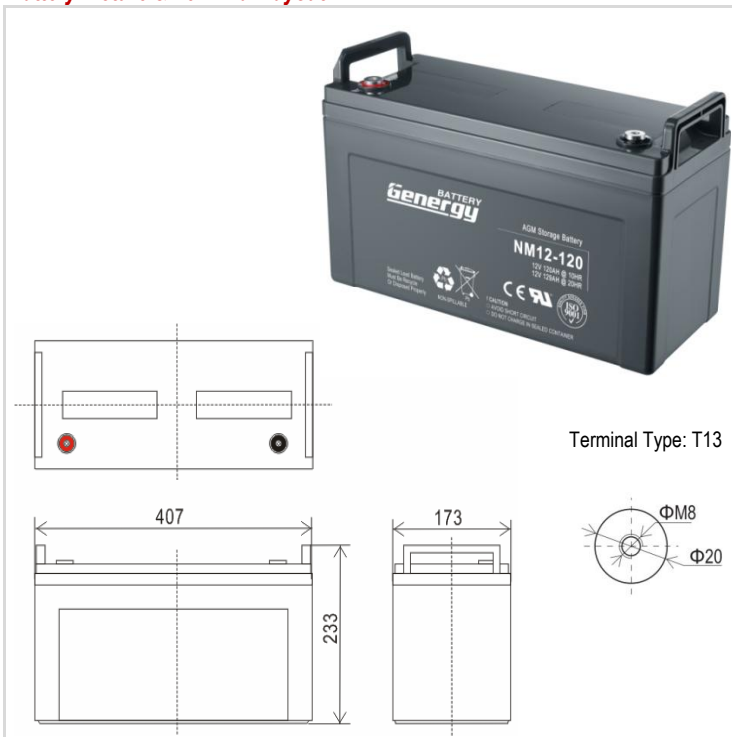
Battery Features

- Absorbent Glass Mat (AGM) Technology for efficient gas recombination of up to 99% maintenance free and fixed orifice plate pasting technology
- Low self-discharge
- Fully tank formed plates
- Low impurity electrolyte
- Flame retardant ABS casing with UL94-V0 is available upon request.
- Very high purity lead

Electrical Specification

Design floating Life @ 25°C (77°F)	10 years
Nominal Capacity @ 25°C /77°F	
20 hour rate 6.78A to 1.75Vpc	135 Ah
10 hour rate 13.23A to 1.75Vpc	132 Ah
Internal Resistance	
(Fully charged battery @ 25°C /77°F)	5mΩ
Max. Discharge Current @ 25°C /77°F	1200 A (5S)
Charge Methods: Constant voltage charge @ 25°C /77°F	
Cycle Use	14.7 ~ 14.9V
Max. Current	35 A
Standby Use	13.6 - 13.8V
Operating Temperature Range	-30 ~ 50°C
<i>Notes: battery voltage must be adjusted according to temperature. Please refer to our recommendation.</i>	
Self-Discharge	
3% of capacity declined per month @ 25°C (77°F).	

Battery Picture & Terminal Layout



Terminal Type: T13

Dimension & Weight

Length	Dimension (± 2mm)			Total Height	Weight (± 2%)
	Width	Height	Total Height		
407 mm	173 mm	233 mm	233 mm	34.8 kg	
16.0 inch	6.8 inch	9.2 inch	9.2 inch	76.7 lbs	

Typical Applications

- UPS & EPS
- Telecommunications
- Power Utility
- Security Power Supply

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	316.81	241.84	209.85	177.87	152.39	136.66	127.44	118.21	109.14	100.96	94.54	54.44	37.82	31.65	25.87	13.82	6.98
1.65	300.83	229.64	199.46	169.27	145.59	130.49	121.89	113.29	104.84	97.28	91.48	52.19	36.38	30.39	24.79	13.49	6.85
1.70	288.41	220.16	191.58	163.01	140.93	126.17	117.90	109.64	101.53	94.32	88.85	50.45	35.54	29.67	24.20	13.36	6.85
1.75	275.10	210.00	183.03	156.07	135.61	121.40	113.70	105.99	98.44	91.78	86.88	49.08	34.75	29.02	23.68	13.23	6.78
1.80	260.90	199.16	174.03	148.91	130.28	116.53	109.27	102.01	94.91	88.70	84.25	47.34	33.91	28.30	23.10	12.89	6.72

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	550.20	420.00	369.62	319.24	274.86	251.02	233.18	215.34	198.09	182.95	169.31	98.85	71.87	58.62	48.28	27.05	14.27
1.65	530.67	405.09	357.24	309.39	267.54	244.37	227.20	210.03	193.46	178.99	166.02	96.88	71.22	57.97	47.63	26.79	14.27
1.70	510.26	389.51	343.97	298.43	258.89	236.61	220.34	204.06	188.39	174.81	162.73	94.59	69.92	56.97	46.91	26.27	14.08
1.75	488.08	372.58	329.58	286.57	249.57	228.19	212.81	197.43	182.65	169.97	158.79	91.64	67.97	55.57	46.07	26.07	13.82
1.80	464.12	354.29	314.05	273.82	239.59	219.10	204.62	190.14	176.25	164.47	154.18	88.46	66.21	54.17	45.03	25.81	13.70

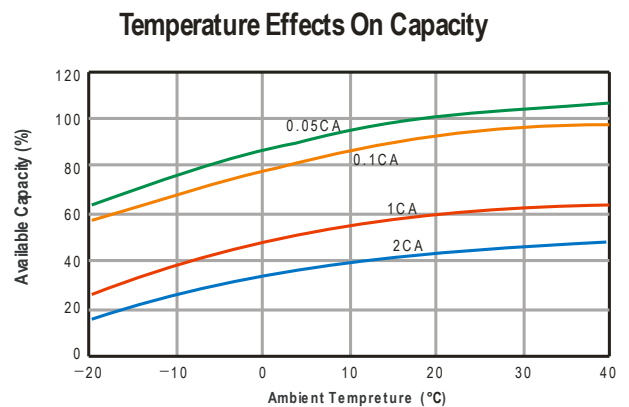
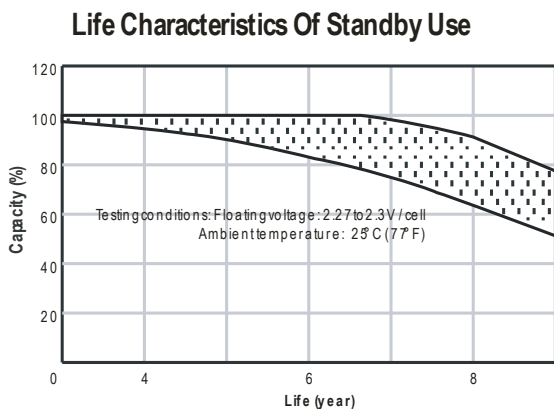
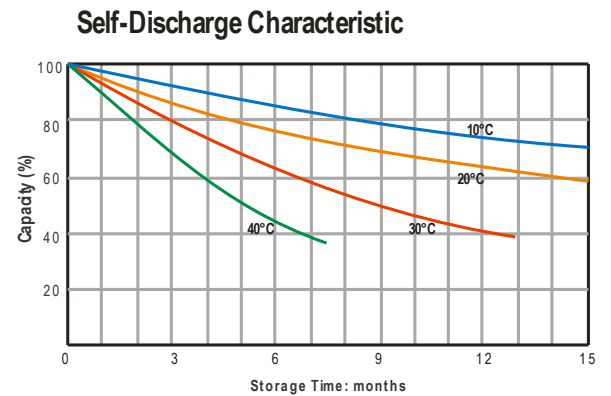
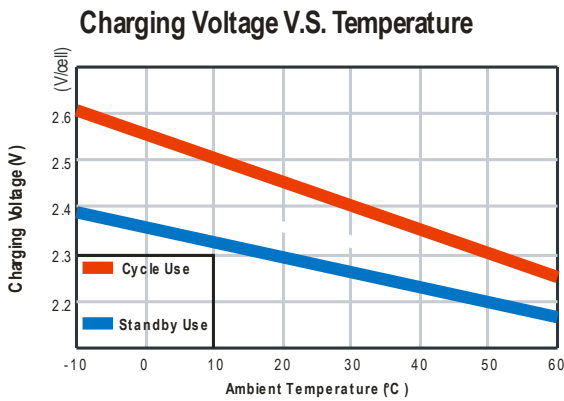
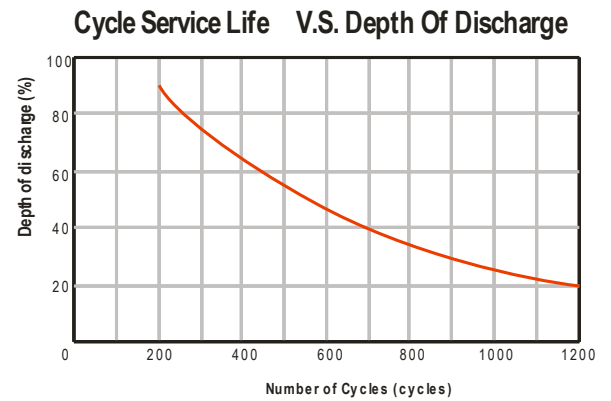
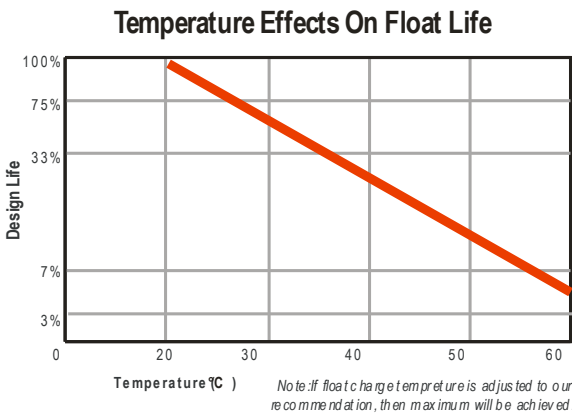
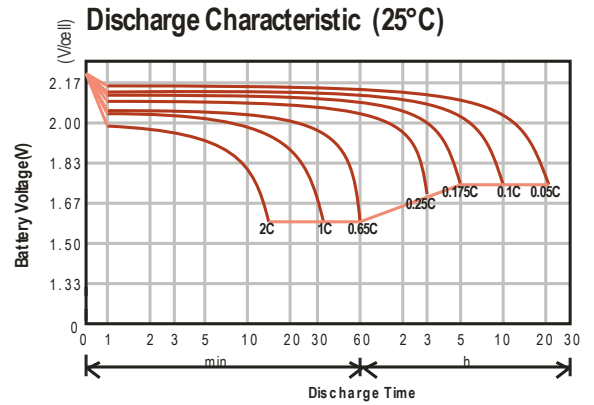
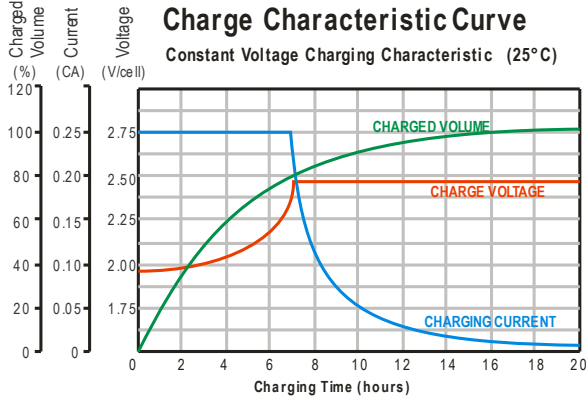
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Graphs



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