

# NM12-230

12V 230Ah / 10hr rate



### Introduction

Genergy NM (33Ah-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 and control system.

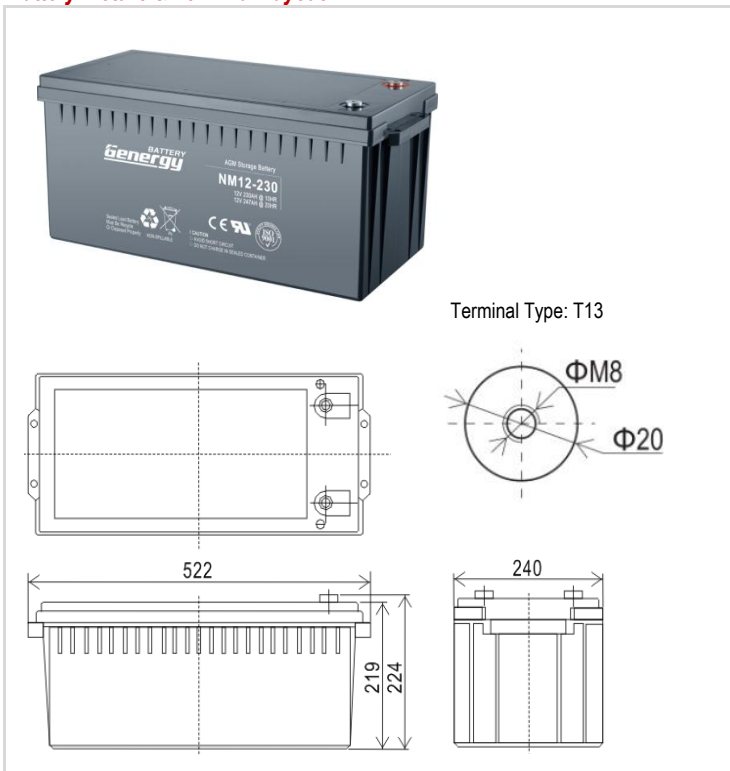
### Battery Features

- Increase durability and deep cycle ability for heavy demand applications
- Low self-discharge
- Fully tank formed plates
- Gelled 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)	10 years
Nominal Capacity @ 25°C /77°F	
20 hour rate 12.01A to 1.75Vp	240.2 Ah
10 hour rate 23.42A to 1.75Vp	234.2 Ah
Internal Resistance	
(Fully charged battery @ 25°C /77°F)	3mΩ
Max. Discharge Current @ 25°C /77°F	2300 A (5S)
Charge Methods: Constant voltage charge @ 25°C /77°F	
Cycle Use	14.7 ~ 14.9V
Max. Current	57A
Standby Use	13.6 - 13.8V
Operating Temperature Range	-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	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	

### Typical Applications

- Telecommunications
- Power Utility
- Data Center
- UPS & EPS

### Certificates



### 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	488.42	372.84	322.09	271.34	229.67	224.89	209.71	195.83	183.10	172.08	171.47	92.96	66.15	54.94	44.92	24.00	12.12
1.65	463.80	354.04	307.51	260.97	223.51	218.94	204.51	191.34	179.37	169.11	169.14	91.16	64.88	53.78	43.88	23.88	12.10
1.70	444.64	339.42	295.37	251.31	216.33	211.69	197.82	185.19	173.79	164.09	164.48	88.09	63.38	52.52	42.84	23.65	12.07
1.75	424.12	323.76	282.19	240.61	208.12	203.69	190.76	179.02	168.57	159.82	160.99	85.65	62.00	51.37	41.92	23.42	12.01
1.80	402.23	307.05	268.31	229.57	199.91	195.51	183.34	172.31	162.61	154.61	156.33	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	848.24	647.51	569.84	492.17	429.03	421.17	391.23	363.71	338.12	316.51	312.61	171.85	125.06	103.77	85.46	47.88	25.26
1.65	818.14	624.54	550.76	476.99	417.74	410.01	381.20	354.75	330.29	309.82	306.79	168.36	123.90	102.62	84.30	47.42	25.26
1.70	786.68	600.52	530.30	460.09	404.40	397.00	369.69	344.66	321.72	302.75	300.97	164.30	121.60	100.83	83.04	46.50	24.92
1.75	752.47	574.41	508.11	441.81	390.04	382.87	357.06	333.46	312.03	294.58	293.99	159.08	118.15	98.35	81.54	46.15	24.47
1.80	715.53	546.21	484.18	422.15	374.65	367.62	343.32	321.14	301.23	285.29	285.84	153.45	115.04	95.88	79.70	45.69	24.24

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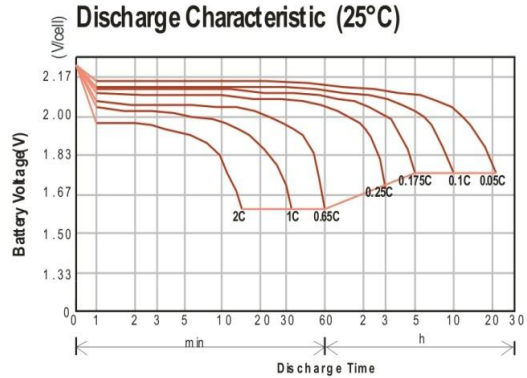
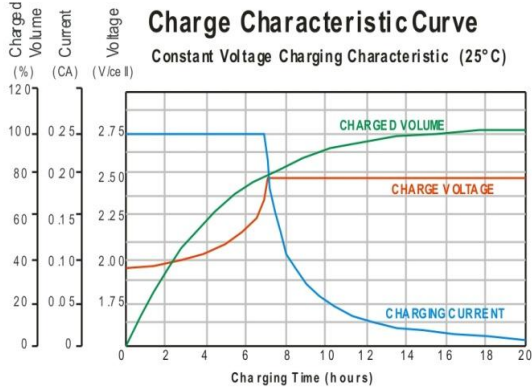
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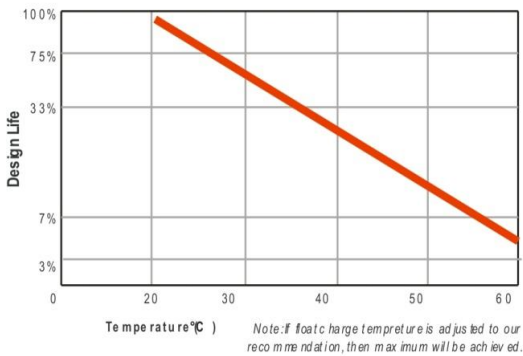
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**Graphs**



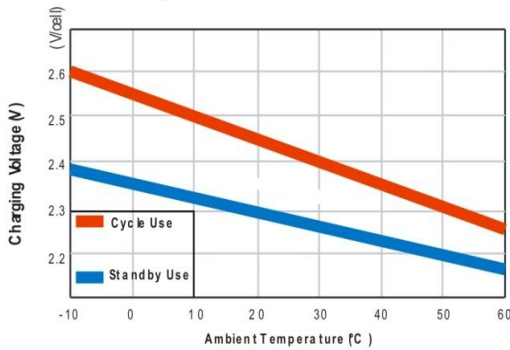
### Temperature Effects On Float Life



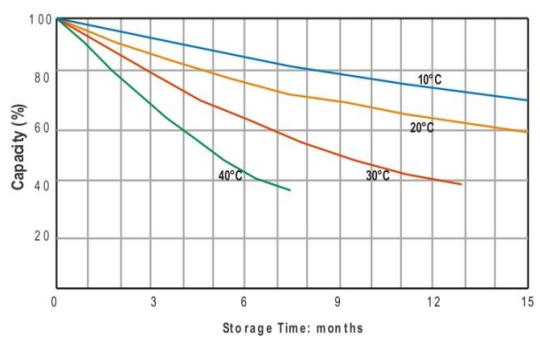
### Cycle Service Life V.S. Depth Of Discharge



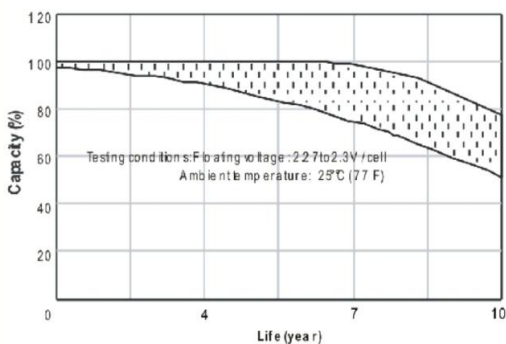
### Charging Voltage V.S. Temperature



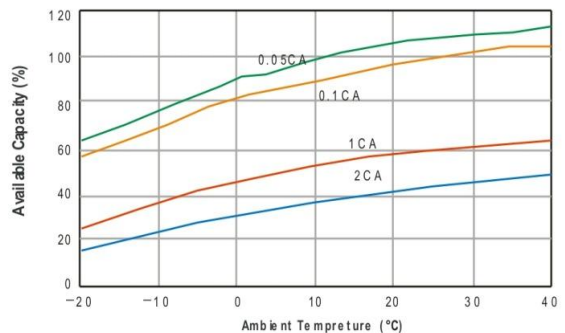
### Self-Discharge Characteristic



### Life Characteristics Of Standby Use



### Temperature Effects On Capacity



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