

# NF12-80

12V80Ah / 10hr rate



### Introduction

**Genergy NF (Front Terminal) series** is designed for telecommunication UPS/EPS system with 12-year design life in float service. The battery is featured of high consistency, excellent performance and reliable standby service life.

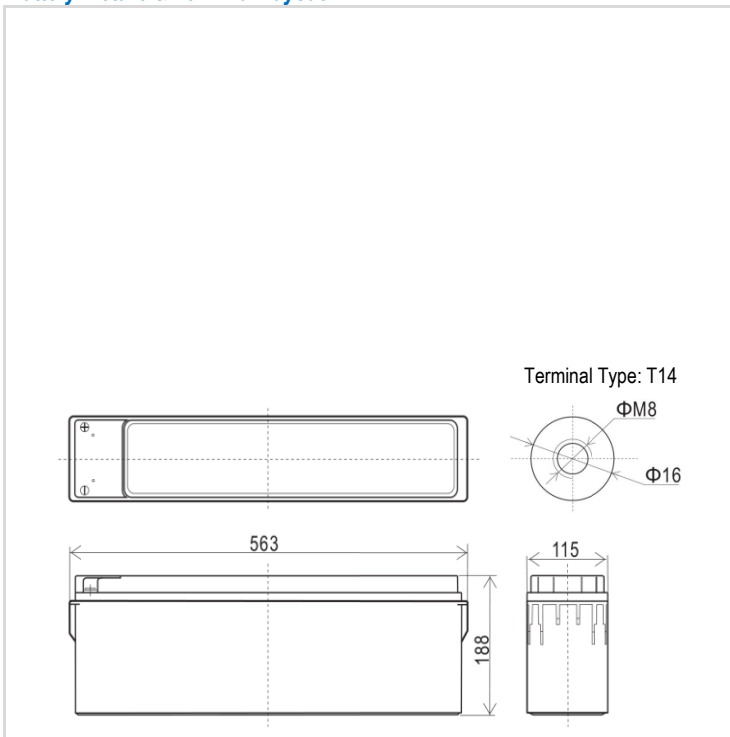
### Battery Features

- Compactness
- ETSI 19 inch / 23 inch integration
- Rackable standard component
- High power to volume ratio
- Modularity
- Long life
- Front connection and terminal access
- Central gassing system and hinged front covers on all models
- Fully tank formed plates
- Low impurity electrolyte
- Multi-position usage
- Spill proof / leak proof
- ABS case and cover VO upon request
- Very high purity lead

### Electrical Specification

Design floating Life @ 25°C (77°F)	12 years
Nominal Capacity @ 25°C /77°F	
20 hour rate 4.23A to 1.75Vpc	84 Ah
10 hour rate 8.07A to 1.75Vpc	80 Ah
Internal Resistance	
(Fully charged battery @ 25°C /77°F)	5mΩ
Max. Discharge Current @ 25°C /77°F	640 A (5S)
Charge Methods: Constant voltage charge @ 25°C /77°F	
Cycle Use	14.7 ~ 14.9V
Max. Current	24 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



### Dimension & Weight

Length	Dimension (± 2mm)			Total Height	Weight (± 2%)
	Width	Height	Total Height		
563 mm	115 mm	188 mm	188 mm	27.3 kg	
22.2 inch	4.5 inch	7.4 inch	7.4 inch	60.2 lbs	

### Typical Applications

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

### 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	212.4	162.2	141.1	120.0	101.9	91.9	84.9	77.9	71.9	66.4	61.5	32.61	23.62	19.22	15.83	8.23	4.31
1.65	202.1	154.3	135.0	115.8	99.5	89.7	82.9	76.1	70.3	65.1	60.3	31.92	23.22	18.87	15.51	8.23	4.31
1.70	189.6	144.8	127.6	110.5	96.3	86.9	80.4	74.0	68.5	63.5	59.1	31.23	22.75	18.47	15.19	8.15	4.27
1.75	177.2	135.3	120.2	105.2	93.2	84.0	77.9	71.8	66.7	62.0	57.9	30.54	22.27	18.08	14.88	8.07	4.23
1.80	163.7	125.0	112.1	99.1	89.2	80.5	74.8	69.1	64.4	60.2	56.6	29.76	21.80	17.64	14.48	7.91	4.15

### 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	355.5	271.4	239.2	207.0	181.8	163.9	152.9	142.0	131.7	122.2	116.2	63.37	45.79	37.22	30.55	15.74	8.33
1.65	345.8	264.0	232.1	200.3	175.5	158.1	147.7	137.2	127.5	118.5	113.0	61.53	45.39	36.90	30.31	15.62	8.26
1.70	333.1	254.3	223.6	192.9	169.2	152.4	142.7	132.9	123.8	115.5	110.6	60.15	45.00	36.59	30.07	15.49	8.20
1.75	319.5	243.9	214.5	185.2	162.8	146.6	137.4	128.1	119.6	111.8	107.5	58.31	44.52	36.23	29.84	15.36	8.13
1.80	303.9	232.0	204.0	175.9	154.9	139.5	131.0	122.6	114.9	107.8	104.3	56.47	44.13	35.91	29.60	15.24	8.06

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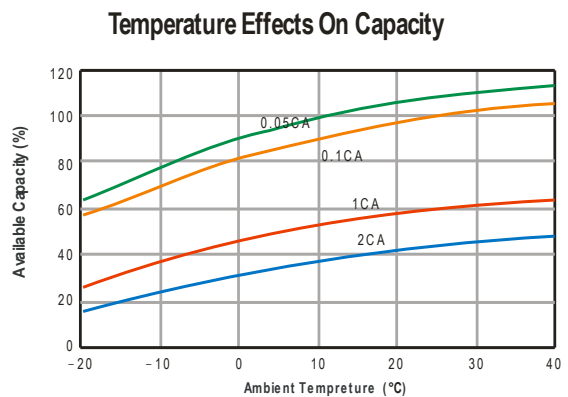
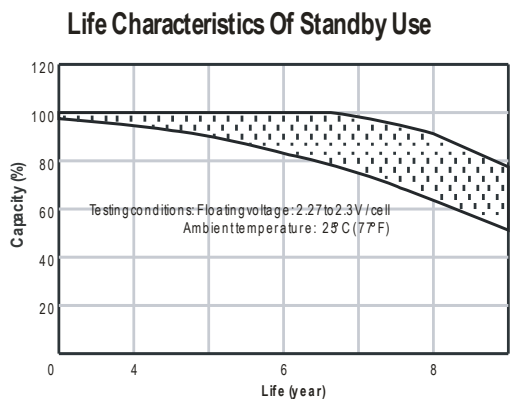
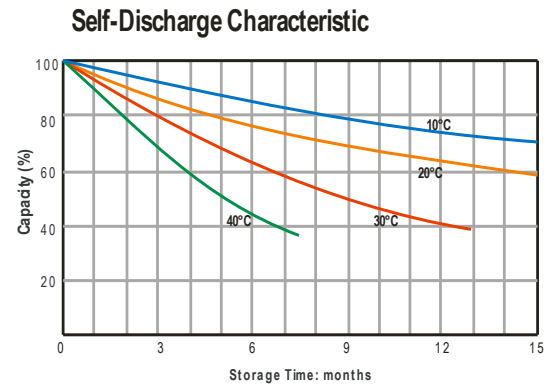
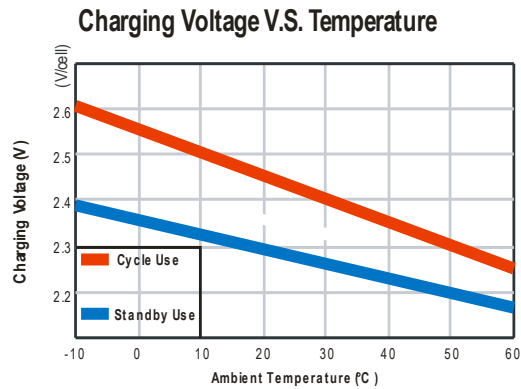
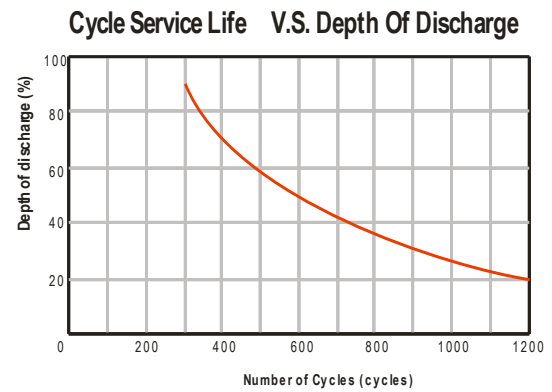
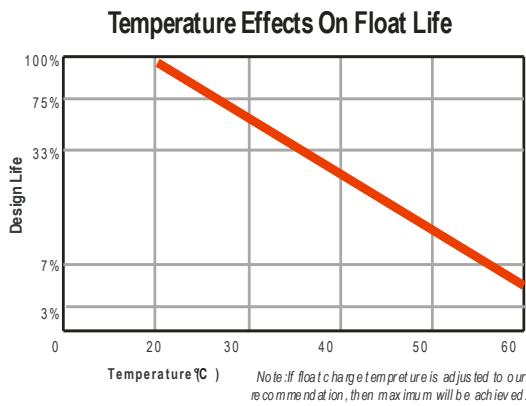
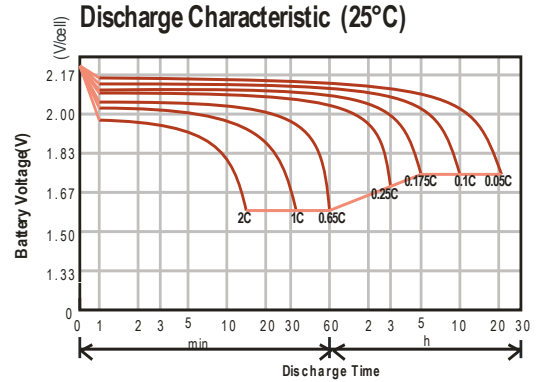
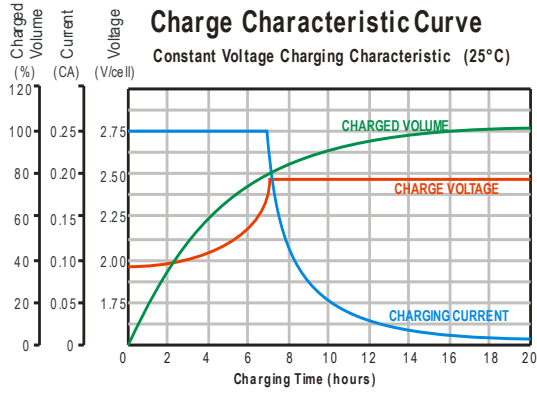
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## Graphs



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