

NFH12-590W

12V590W/ 15min rate



Introduction

Genergy NFH (Front Terminal) series is primarily for heavy load discharge in short time backup especially for telecom 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.

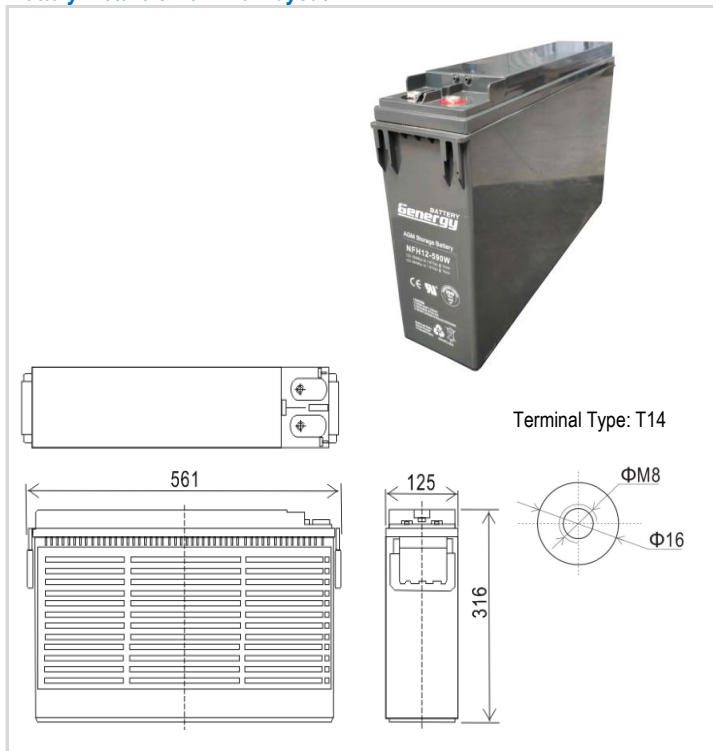
Battery Features

- 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	
Watt @ 15min to 1.67V/cell	590 W/cell
Watt @ 10min to 1.67V/cell	664 W/cell
Internal Resistance	
(Fully charged battery @ 25°C / 77°F)	4mΩ
Max. Discharge Current @ 25°C / 77°F	1500 A (5S)
Charge Methods: Constant voltage charge @ 25°C / 77°F	
Cycle Use	14.7 ~ 14.9V
Max. Current	54 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			
561 mm	125 mm	316 mm	316 mm	52.0 kg	
22.1 inch	4.9 inch	12.4 inch	12.4 inch	114.6 lbs	

Typical Applications

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

Certificates



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

V/cell	5min	10min	15min	20min	30min	45min	55min	1hr	2hr
1.60	435.3	331.2	291.5	259.3	184.7	131.6	122.4	107.1	62.0
1.65	417.5	318.9	289.8	254.2	182.7	131.4	119.6	105.9	61.9
1.70	408.1	313.0	285.0	253.9	181.6	131.1	119.2	105.5	61.5
1.75	370.3	299.0	275.8	248.1	180.0	130.8	118.7	105.3	60.9
1.80	332.2	275.0	261.5	237.5	174.9	127.7	115.0	103.9	60.4

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

V/cell	5min	10min	15min	20min	30min	45min	55min	1hr	2hr
1.60	875.1	684.4	598.2	505.5	372.1	266.1	248.3	216.0	123.1
1.65	853.1	678.5	593.4	502.4	370.7	264.0	239.1	215.3	120.4
1.67	835.7	664.0	590.0	493.6	364.9	263.5	234.7	214.0	118.1
1.70	798.1	647.6	582.7	489.4	360.3	258.9	229.1	211.0	114.3
1.75	772.7	625.7	577.9	479.0	357.5	256.6	221.1	207.1	110.3
1.80	684.0	600.0	545.6	466.3	356.2	253.1	217.9	202.1	107.9

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

Web: www.genergybattery.com | Email: sales@genergybattery.com

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Graphs

