

NG2-2000

2V2000Ah / 20hr rate



Introduction

Genergy NG (2 Volt) series is designed for solar and other renewable energy system applications with a 15 years design life. The series battery is a genuine Gelled electrolyte valve regulated product. Featured of its performance is an enhanced cycle life in comparison to traditional AGM products.

Battery Features

- Completed maintenance free
- Electrolyte will not stratify, no equalization charge required.
- Enhanced cycle life
- Genuine Gelled thixotropic electrolyte (Silicon Gel)
- Increase durability and deep cycle ability for heavy demand applications
- Low self-discharge
- Fully tank formed plates
- Low impurity electrolyte
- Spill proof / leak proof
- Multi-position usage
- ABS case and cover VO upon request

Electrical Specification

Design floating Life @ 25°C (77°F)	15 years
Nominal Capacity @ 25°C /77°F	
20 hour rate 100.3A to 1.75Vpc	2006Ah
10 hour rate 195.7A to 1.75Vpc	1957Ah

Internal Resistance

(Fully charged battery @ 25°C /77°F) 0.4 mΩ

Max. Discharge Current @ 25°C /77°F10000 A (5S)

Charge Methods: Constant voltage charge @ 25°C /77°F

Cycle Use 2.45 ~ 2.49V

Max. Current 500 A

Standby Use 2.25 ~ 2.30V

Operating Temperature Range -30 ~ 50°C

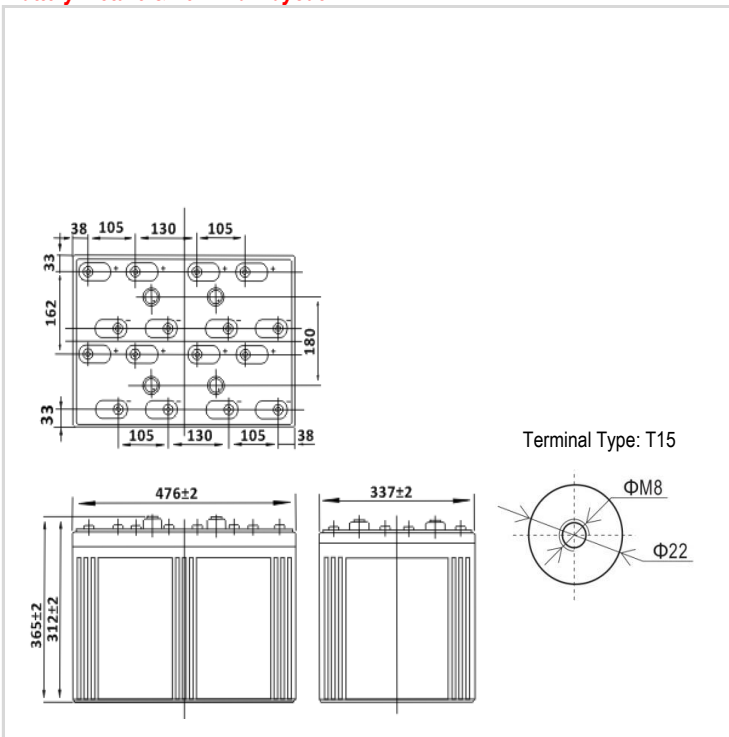
Notes: battery voltage must be adjusted according to temperature.

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			
476 mm	337 mm	312 mm	365 mm	130.3 kg	
18.7 inch	13.3 inch	12.3 inch	14.4 inch	287.3 lbs	

Typical Applications

- Solar Energy System
- Wind Energy System
- Power Utility
- UPS/EPS
- BTS system
- Data Center

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	3560	2918	2644	2332	2100	1887	1774	1660	1561	1472	1431	779.4	552.1	458.9	375.2	200.5	101.3
1.65	3381	2771	2525	2243	2045	1837	1730	1622	1529	1447	1412	764.3	541.5	449.3	366.6	199.5	101.3
1.70	3241	2656	2425	2160	1980	1776	1674	1569	1482	1404	1373	738.6	529.0	438.7	357.9	197.6	101.3
1.75	3092	2534	2317	2068	1906	1709	1614	1517	1437	1367	1344	718.3	517.5	429.1	350.2	195.7	100.3
1.80	2932	2403	2203	1973	1833	1640	1551	1460	1386	1323	1305	692.6	505.0	418.5	341.6	190.6	99.4

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	6183	5068	4679	4230	3858	3534	3310	3082	2873	2690	2582	1397	1020	866.9	713.9	400.0	211.0
1.65	5964	4888	4522	4099	3757	3440	3225	3006	2806	2633	2533	1368	1010	857.3	704.3	396.2	211.0
1.70	5734	4700	4354	3954	3637	3331	3128	2921	2733	2572	2485	1334	991	842.3	693.7	388.5	208.2
1.75	5485	4496	4172	3797	3508	3212	3021	2826	2650	2502	2426	1290	962	821.7	681.2	385.6	204.4
1.80	5216	4275	3975	3628	3370	3084	2905	2722	2558	2423	2358	1243	936	801.0	665.8	381.7	202.5

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

