

NG2-600

2V600Ah / 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 30.09A to 1.75Vpc	615.4Ah
10 hour rate 58.7A to 1.75Vpc	587Ah
Internal Resistance	
(Fully charged battery @ 25°C /77°F)	0.9 mΩ
Max. Discharge Current @ 25°C /77°F	3000 A (5S)
Charge Methods: Constant voltage charge @ 25°C /77°F	
Cycle Use	2.45 ~ 2.49V
Max. Current	150 A
Standby Use	2.25 ~ 2.30V
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		
285 mm	171 mm	312 mm	342 mm	38.7 kg	
11.2 inch	6.7 inch	12.3 inch	13.5 inch	85.3 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	1068	875	793	700	630	566	532	498	468	442	429	234	166	138	113	60.15	30.38
1.65	1014	831	757	673	613	551	519	486	459	434	424	229	162	135	110	59.86	30.38
1.70	972	797	728	648	594	533	502	471	444	421	412	222	159	132	107	59.28	30.38
1.75	927	760	695	620	572	513	484	455	431	410	403	215	155	129	105	58.70	30.09
1.80	880	721	661	592	550	492	465	438	416	397	391	208	151	126	102	57.17	29.81

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	1855	1520	1404	1269	1158	1060	993	925	862	807	775	419	306	260	214	120	63.31
1.65	1789	1466	1357	1230	1127	1032	968	902	842	790	760	410	303	257	211	119	63.31
1.70	1720	1410	1306	1186	1091	999	938	876	820	772	745	400	297	253	208	117	62.46
1.75	1646	1349	1252	1139	1053	964	906	848	795	751	728	387	289	246	204	116	61.32
1.80	1565	1282	1193	1088	1011	925	871	816	767	727	707	373	281	240	200	115	60.76

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

