



AGM BATTERY NL Series

NL2-1000 (2V 1000AH)



The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, special one-way valves allow the gases to escape thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore, maintenance-free, leak proof and usable in any position.

Battery Construction

COMPONENT	POSITIVE PLATE	NEGATIVE PLATE	CONTAINER	COVER	SAFETY VALVE	TERMINAL	SEPARATOR	ELECTROLYTE
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper/Plug	Fiberglass	Sulfuric acid

Performance Characteristics

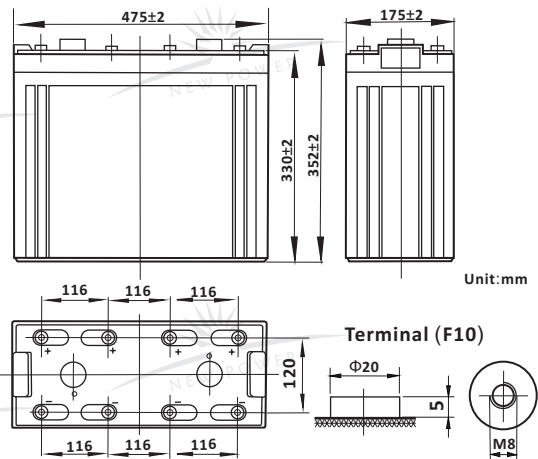
- **Nominal Voltage** 2V
- **Number of Cell** 1
- **Nominal Capacity (77°F /25°C)**
 - 10 Hour rate (100A, 1.8V) 1000Ah
 - 5 Hour rate (178A, 1.75V) 890Ah
 - 3 Hour rate (252A, 1.70V) 756Ah
 - 1 Hour rate (615A, 1.60V)..... 615Ah
- **Internal Resistance**
 - Fully charged battery (77°F /25°C) 0.5mΩ
- **Capacity affected by temperature (20 hour rate)**
 - 104°F (40°C) 102% 32°F (10°C) 85%
 - 77°F (25°C) 100% 5°F (-15°C) 65%
- **Self-Discharge 68°F (20°C)**
 - Capacity after 3 month storage 90%
 - Capacity after 6 month storage 80%
 - Capacity after 12 month storage 60%
- **Max. discharge current 77°F /25°C** 3000A(5S)
- **Charge Methods: constant voltage charge 77°F /25°C**
 - Cycle use 2.35 ~ 2.45V
 - Max. Current 200A
 - Standby use 2.25 ~ 2.30V

General Features

- **Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.**
- **Not restricted for air transport-complies with IATA/ICAO Special Provision A67.**
- **A recognized component of CE and UL**
- **Computer designed lead, calcium tin alloy grid for high power density.**
- **Long service life, float or cyclic applications.**
- **Maintenance-free operation.**
- **Low self discharge**
- **Design life 15 years**

Dimensions and Weight

Type	Length	Width	Height	Total Height	Approx. Weight
SI Units	475mm	175mm	330mm	367mm	62Kg
English Units	18.7inch	6.89inch	13.0inch	14.45inch	136.6lbs



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

V/cell	10min	15min	30min	45min	1h	3h	5h	10h
1.60	1850	1405	1060	755	615	260	192	107
1.65	1750	1335	1013	725	598	256	188	106
1.70	1650	1265	964	693	578	252	183	104
1.75	1550	1195	915	660	550	248	178	102
1.80	1450	1123	863	625	530	243	172	100

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

V/cell	10min	15min	30min	45min	1h	2h	3h	5h
1.60	2965	2421	1804	1360	1114	720	522	360
1.65	2793	2290	1713	1298	1067	702	507	354
1.70	2620	2158	1621	1233	1018	688	497	348
1.75	2447	2024	1527	1166	967	676	488	341
1.80	2276	1890	1432	1099	915	661	476	335

(Note: The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.)



