



AGM BATTERY NL Series

NL2-3000 (2V 3000AH)



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

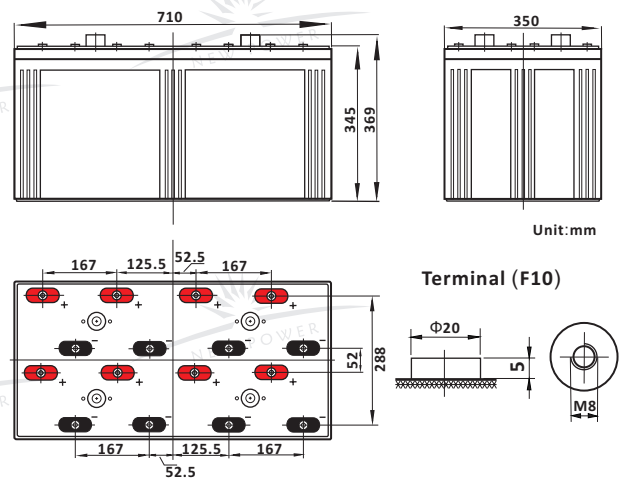
- **Nominal Voltage** 2V
- **Number of Cell** 1
- **Nominal Capacity (77°F /25°C)**
 - 10 Hour rate (300A, 1.8V) 3000Ah
 - 5 Hour rate (535A, 1.75V) 2675Ah
 - 3 Hour rate (770A, 1.70V) 2310Ah
 - 1 Hour rate (1850A, 1.60V)..... 1850Ah
- **Internal Resistance**
 - Fully charged battery (77°F /25°C) 0.12mΩ
- **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 600A
 - 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	710mm	350mm	345mm	382mm	190Kg
English Units	27.95inch	13.8inch	13.6inch	15.04inch	418.8lbs



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

V/cell	10min	15min	30min	45min	1h	3h	5h	10h
1.60	5140	4020	2980	2160	1850	825	580	319
1.65	4870	3825	2850	2072	1793	800	562	315
1.70	4595	3625	2710	1980	1735	770	550	310
1.75	4305	3420	2570	1883	1675	745	535	305
1.80	4020	3215	2425	1785	1630	710	525	300

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

V/cell	10min	15min	30min	45min	1h	2h	3h	5h
1.60	7748	6050	4484	3477	2976	2040	1423	922
1.65	7344	5759	4286	3338	2895	2017	1386	906
1.70	6926	5459	4088	3199	2814	1942	1346	888
1.75	6497	5154	3890	3060	2733	1859	1302	869
1.80	6062	4845	3690	2921	2652	1770	1268	826

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



