



AGM BATTERY ND Series

NM 6-180D (6V 180Ah)



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

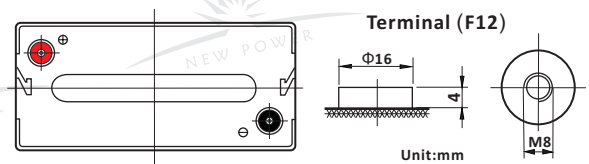
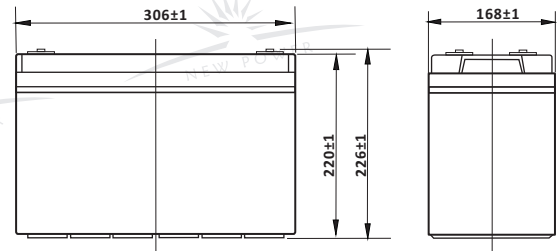
- **Nominal Voltage** 6V
- **Number of Cell** 3
- **Nominal Capacity (77°F /25°C)**
 - 20 Hour rate (9.3A, 5.4V) 186Ah
 - 10 Hour rate (18A, 5.4V) 180Ah
 - 5 Hour rate (32A, 5.25V) 160Ah
 - 1 Hour rate (118A, 4.8V) 118Ah
- **Internal Resistance**
 - Fully charged battery (77°F /25°C) 2mΩ
- **Capacity affected by temperature (10 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** 950A(5S)
- **Charge Methods: constant voltage charge 77°F /25°C**
 - Cycle use 7.25 ~ 7.35V
 - Max. Current 45A
 - Standby use 6.8 ~ 6.9V

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 10 years**

Dimensions and Weight

Type	Length	Width	Height	Total Height	Approx. Weight
SI Units	306mm	168mm	220mm	226mm	26.8Kg
English Units	12inch	6.61inch	8.66inch	8.9inch	59.1lbs



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

V/cell	10min	15min	30min	1h	3h	5h	10h	20h
1.60	370	300	195	118	50.3	33.1	18.8	9.75
1.65	355	290	190	116	49.7	32.8	18.7	9.70
1.70	338	279	184	114	49.0	32.4	18.5	9.60
1.75	319	267	178	111	48.3	32.0	18.3	9.50
1.80	298	253	171	107	47.4	31.5	18.0	9.30

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

V/cell	10min	15min	30min	45min	1h	2h	3h	5h
1.60	660	555	360	260	215	132	97.5	61.8
1.65	644	542	350	253	210	129	96.5	61.2
1.70	626	528	339	245	204	125	95.3	60.5
1.75	606	513	327	237	198	121	94.0	59.7
1.80	583	496	313	228	191	116	92.5	58.7

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



