NEW POWER®

AGM BATTERY
NL Series

NL2-1200 (2V 1200AH)

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

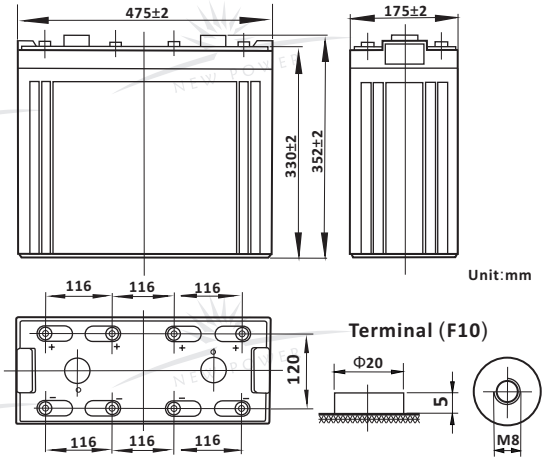
COMPONENT	POSITIVE PLATE	NEGATIVE PLATE	CONTAINER	COVER	SAFETY VALVE	TERMINAL	SEPARATOR	ELECTROLYTE
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper/Plug	Fiberglass	Sulfuric acid

Performance Characteristics

- ***Nominal Voltage*** ····· 2V
- ***Number of Cell*** ····· 1
- ***Nominal Capacity (77°F /25°C)***
  - *10 Hour rate (120A, 1.8V)* ····· 1200Ah
  - *5 Hour rate (208A,1.75V)* ····· 1040Ah
  - *3 Hour rate (305A, 1.70V)* ····· 915Ah
  - *1 Hour rate (735A, 1.60V)* ····· 735Ah
- ***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* ····· 240A
  - *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	71Kg
English Units	18.7inch	6.89inch	13.0inch	14.45inch	156.5lbs

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

V/cell	10min	15min	30min	45min	1h	3h	5h	10h
1.60	2220	1685	1270	905	735	316	222	127
1.65	2120	1635	1245	885	720	311	218	126
1.70	2020	1585	1220	865	705	305	213	124
1.75	1920	1535	1195	845	690	299	208	122
1.80	1800	1475	1165	820	670	292	202	120

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

V/cell	10min	15min	30min	45min	1h	2h	3h	5h
1.60	3409	2784	2075	1564	1281	828	600	414
1.65	3212	2633	1970	1493	1227	807	583	407
1.70	3013	2482	1864	1418	1170	791	572	400
1.75	2814	2328	1756	1341	1112	777	561	392
1.80	2617	2174	1647	1264	1052	760	547	385

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

Shenzhen New Power Industry Co., Ltd.

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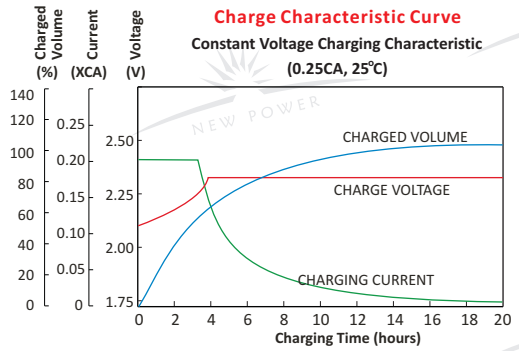
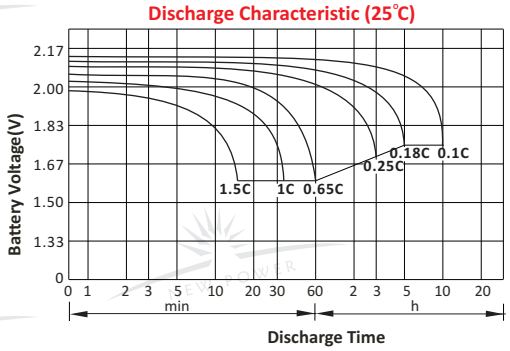
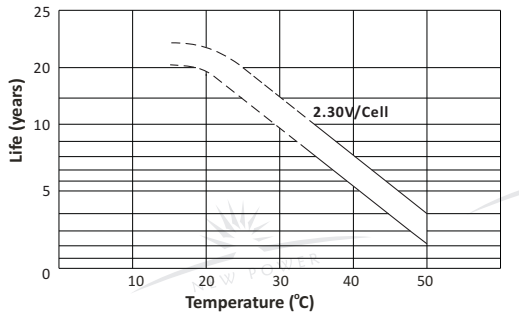
Charge Characteristic Curve
Constant Voltage Charging Characteristic
(0.25CA, 25℃)



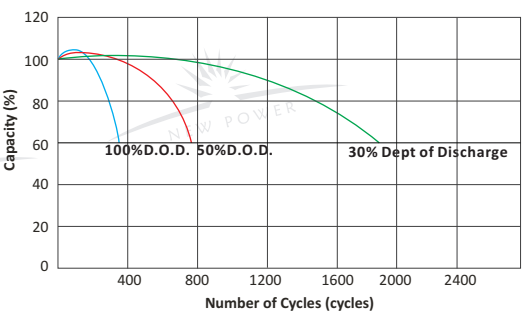
Discharge Characteristic (25℃)



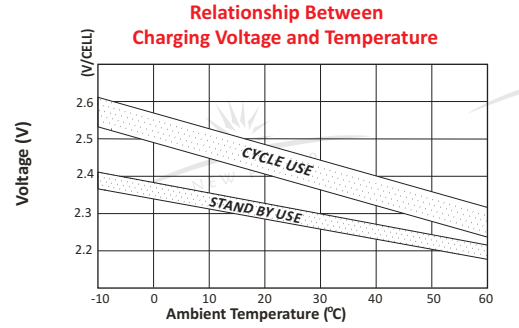
Temperature Effects On Float Life



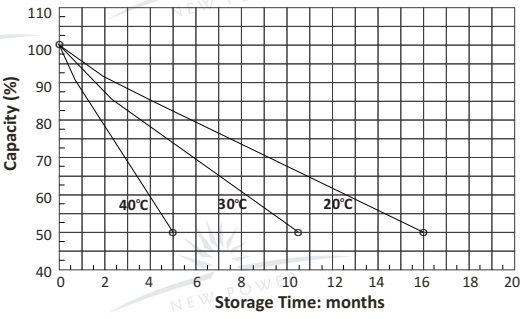
Cycle Service Life In Relation To Depth Of Discharge



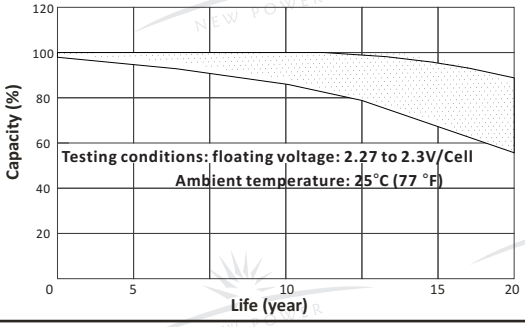
Relationship Between Charging Voltage and Temperature



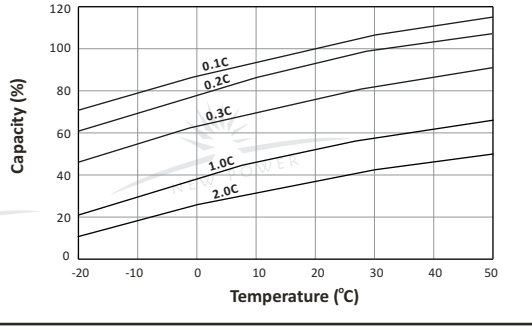
Self-Discharge Characteristic



Life Characteristics Of Standby Use



Temperature Effects On Capacity



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