

# BG-121000NB

(12V 100Ah)

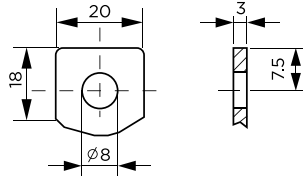
Rechargeable Sealed Lead Acid Battery



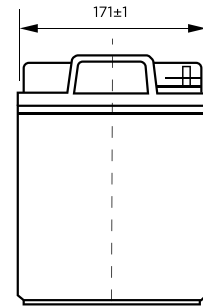
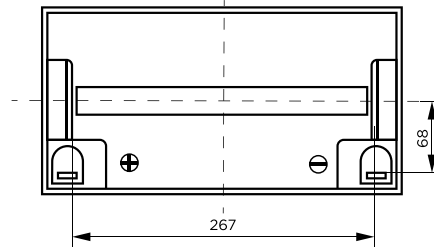
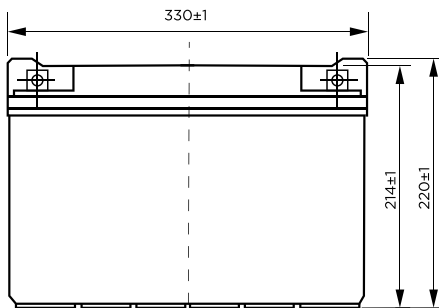
Technical Specification Sheet

These rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators 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.

Terminal (F5)



Unit: mm



## Performance Characteristics

<b>Nominal Voltage</b>	12V				
<b>Number of cells</b>	6				
<b>Nominal Capacity</b> 77°F (25°C)	20HR(5A,10.8V)		1HR(65A,9.6V)		
	100AH		65AH		
<b>Dimensions</b>	<i>Length</i>	<i>Width</i>	<i>Height</i>	<i>Total Height</i>	<i>Approx. Weight</i>
	330mm 13.0inch	171mm 6.74inch	214mm 8.43inch	220mm 8.66inch	28.2Kg 62.2lbs
<b>Internal Resistance</b>	Full charged battery 77°F (25°C) : 5mΩ				
<b>Self Discharge</b>	3% of capacity declined per month at 20°C				
<b>Operating Temperature Range</b>	Discharge -20 -60°C		Charge -10 -60°C		Storage -20 -60°C
<b>Max.Discharge Current</b> 77°F(25°C)	900A (5S)				
<b>Short Circuit Current</b>	2100A				
<b>Charge Methods</b>	Constant Voltage Charge 77°F(25°C)				
	Cycle use		Standby use		
	14.4-14.7V Maximum charging current: 25A		13.6-13.8V		

## 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.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.

## Battery Construction

Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid



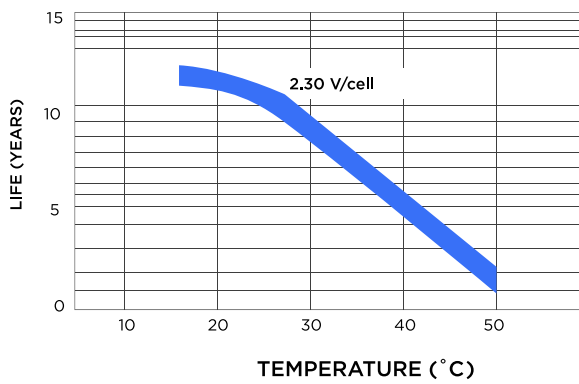
**Constant current discharge ratings-amperes at 77°F 25°C**

End Voltage Per cell/V	10 min	15 min	30 min	1HR	3HR	5HR	10HR	20HR
1.60V	231.0	190.0	112.0	65.0	27.5	18.3	10.2	5.25
1.65V	220.0	182.0	108.0	62.8	26.5	17.8	10.1	5.20
1.70V	208.0	173.0	103.5	60.5	25.5	17.2	10.0	5.15
1.75V	196.0	164.0	98.7	58.2	24.4	16.6	9.8	5.10
1.80V	183.0	154.0	93.7	55.7	23.2	15.9	9.5	5.00

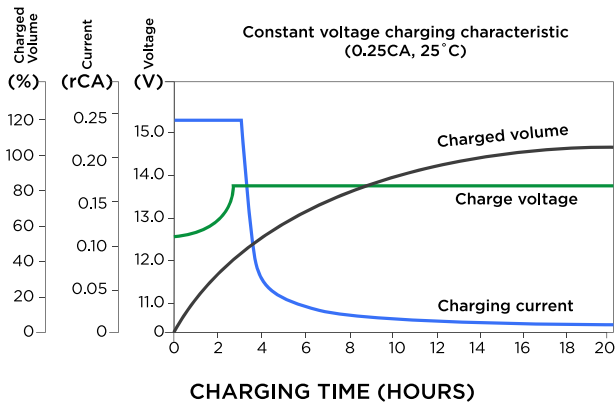
**Constant power discharge ratings-watts at 77°F 25°C**

End Voltage Per cell/V	10 min	15 min	30 min	1HR	3HR	5HR	10HR	12HR
1.60V	395.0	315.0	200.0	124.0	52.0	37.0	20.8	17.0
1.65V	379.0	305.0	193.0	121.0	51.0	36.4	20.6	16.9
1.70V	362.0	293.0	185.0	118.0	49.8	35.7	20.4	16.8
1.75V	344.0	281.0	177.0	114.0	48.5	35.0	20.2	16.6
1.80V	324.0	267.0	168.0	109.0	47.0	34.1	19.9	16.4

**Temperature effects on float life**



**Charge characteristic curve**



**Cycle service life in relation to depth of discharge**

