BG-121000NB

(12V 100Ah)

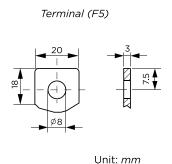
Rechargeable Sealed Lead Acid Battery



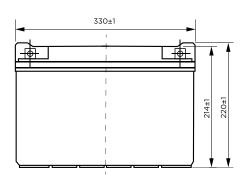
Technical Specification Sheet

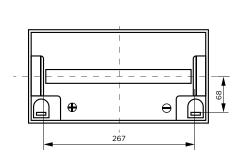


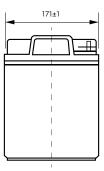
These rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, special one-way valves allow the gases to escape thus avoiding excessive pressure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











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

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

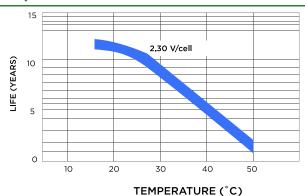
Page 1 of 2



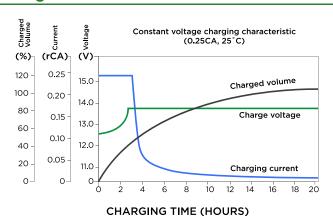
Constan	Constant current discharge ratings-amperes at 77°F 25°C									
End Voltage Per cell/V	10 min	15 min	30 min	1HR	3HR	5HR	10HR	20HR		
1.60V	231.0	190.0	112.0	65.0	27.5	18.3	10.2	5.25		
1.65V	220.0	182.0	108.0	62.8	26.5	17.8	10.1	5.20		
1.70V	208.0	173.0	103.5	60.5	25.5	17.2	10.0	5.15		
1.75V	196.0	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		

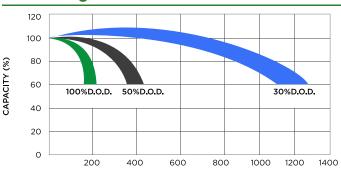
Temperature effects on float life



Charge characteristic curve



Cycle service life in relation to depth of discharge



NUMBER OF CYCLES (CYCLES)

Page 2 of 2 batteryguy.com