BG-12120F2

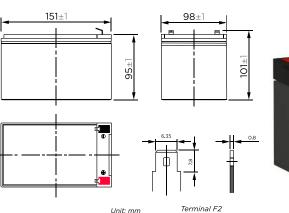
(12V 12Ah/20hr)

Rechargeable Sealed Lead Acid Battery





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.





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	20 hour rate (0.6A, 10.5V)	12Ah				
	10 hour rate (1.14A, 10.5V)	11.4Ah				
Capacity 77°F(25°C)	5 hour rate (2.05A, 10.5V)	10.2Ah				
	1 hour rate (7.5A, 9.6V)	7.5Ah				
	Full charged Battery77°F(25°C):20mΩ					
Internal Resistance	Full charged Battery77°F(25°C)	35mΩ				
	104°F(40°C)	102%				
Capacity affected by	77°F(25°C)	100%				
Temperature (20 hour rate)	32°F(10°C)	85%				
(20 flour rate)	5°F(-15°C)	65%				
0.1/ 0: -1	Capacity after 3 month storage	90%				
Self-Discharge 68°F(20°C)	Capacity after 6 month storage	80%				
00 F(20 C)	Capacity after 12month storage 60%					
Max. discharge current 77°F(25°C): 180 A(5S)						

Charge (Constant Voltage)	Cycle: 14.5-14.9 V/77°F/(25°C)
	Max. Current: 3.0A

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

End Points Volts/Cell	5 min	10 min	15 min	30 min	1h	3h	5h	10h	20h
1.60V	45.6	31.0	24.3	13.3	7.50	3.15	2.12	1.18	0.61
1.65V	44.2	30.1	23.8	12.9	7.43	3.12	2.10	1.17	0.61
1.70V	42.7	29.2	23.2	12.6	7.37	3.09	2.07	1.16	0.61
1.75V	41.3	28.3	22.7	12.3	7.30	3.06	2.05	1.14	0.60
1.80V	39.8	27.5	22.1	12.0	7.23	3.03	2.02	1.12	0.59

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

=									
End Points Volts/Cell	5 min	10 min	15 min	30 min	45 min	1h	2h	3h	5h
1.60V	88.0	59.2	47.7	28.2	21.0	15.6	9.78	6.52	4.24
1.65V	82.5	55.7	45.1	26.8	20.0	14.9	9.49	6.36	4.17
1.70V	77.1	52.3	42.5	25.3	19.0	14.2	9.17	6.19	4.09
1.75V	71.7	48.8	39.8	23.9	18.0	13.5	8.81	6.00	4.00
1.80V	66.4	45.4	37.2	22.4	17.0	12.8	8.43	5.80	3.90

SPECIFICATION

Nominal voltage	.12V
Number of cells	6
Length (mm/inch)	151/5.94
Width (mm/inch)	98/3.86
Height (mm/inch)	95/3.74
Total Height (mm/inch)	101/3.98
Approx.Weight (kg/lb)	3.4/7.48

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		

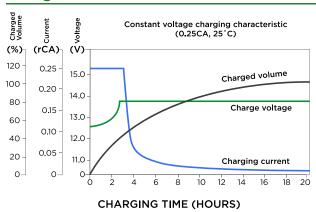
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(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.

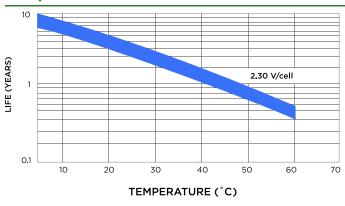
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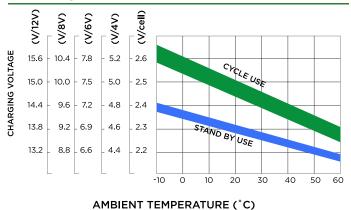
Charge characteristic curve



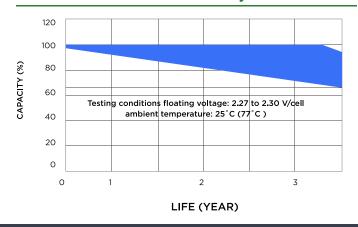
Temperature effects on float life



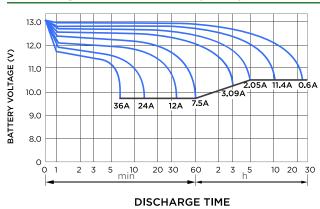
Relationship between charging voltage and temperature



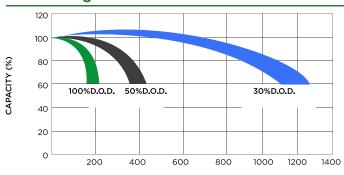
Life characteristics of standby use



Discharge characteristic (25°C)

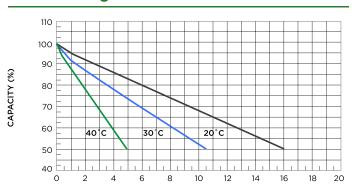


Cycle service life in relation to depth of discharge



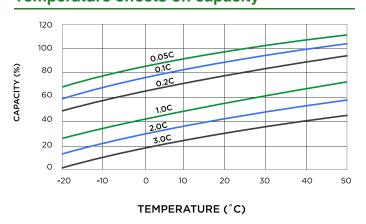
NUMBER OF CYCLES (CYCLES)

Self-discharge characteristic



STORAGE TIME: MONTHS

Temperature effects on capacity



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