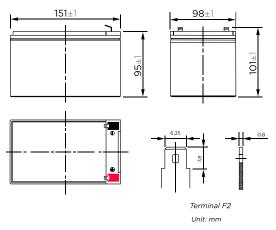


Rechargeable Sealed Lead Acid Battery

BC-12120F2

(12V 12Ah/20hr)





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.

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	

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 transportcomplies 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.

Performance Characteristics						
	20 hour rate (0.6A, 10.5V)	12Ah				
Capacity 77°F(25°C)	10 hour rate (1.14A, 10.5V)	11.4Ah				
Capacity // F(25 C)	5 hour rate (2.05A, 10.5V)	10.2Ah				
	1 hour rate (7.5A, 9.6V)	7.5Ah				
Internal Resistance	Full charged Battery77°F(25°6	C):20mΩ				
	104°F(40°C)	102%				
Capacity affected by	77°F(25°C)	100%				
Temperature (20 hour rate)	32°F(10°C)	85%				
(20 110 di 14(0)	5°F(-15°C)	65%				
Calf Diaghanna	Capacity after 3 month storage	90%				
Self-Discharge 68°F(20°C)	Capacity after 6 month storage	80%				
001(20 0)	Capacity after 12month storage	60%				
Max. discharge current	Max. discharge current 77°F(25°C): 180 A(5S)					
	Float: 13.6~13.8 V/77°F/(25°C)					

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

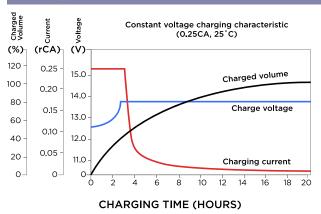
Discharge Constant Current (Amperes at 77°F 25°C)

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

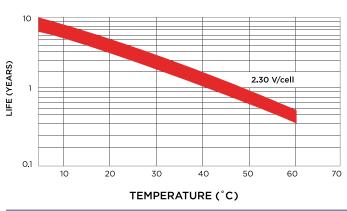
Disc	Discharge Constant Power (Watts at 77°F 25°C)									
End Points Volts/Cell	5 min	10 min	15 min	30 min	45 min	1h	2h	3h	5h	
1.60V	88.0	59.2	47.7	28.2	21.0	15.6	9.78	6.52	4.24	
1.65V	82.5	55.7	45.1	26.8	20.0	14.9	9.49	6.36	4.17	
1.70V	77.1	52.3	42.5	25.3	19.0	14.2	9.17	6.19	4.09	
1.75V	71.7	48.8	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	



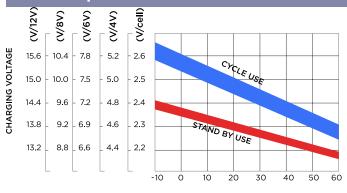
Charge characteristic curve



Temperature effects on float life

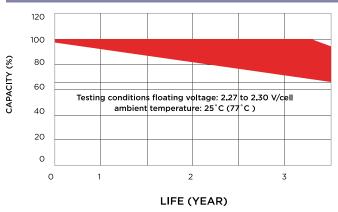


Relationship between charging voltage and temperature

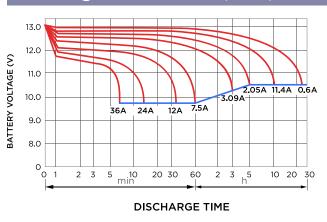


AMBIENT TEMPERATURE (°C)

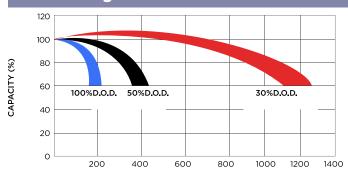
Life characteristics of standby use



Discharge characteristic (25°C)

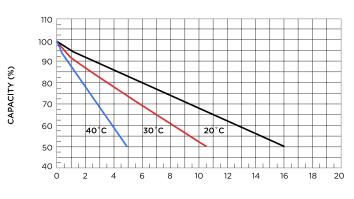


Cycle service life in relation to depth of discharge



NUMBER OF CYCLES (CYCLES)

Self-discharge characteristic



STORAGE TIME: MONTHS

Temperature effects on capacity

