

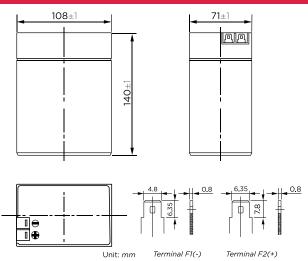
Your Replacement Battery Source

Rechargeable Sealed Lead Acid Battery

BC-6120

(6V 14Ah/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	omponent 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	6V
Number of cells	3
Length (mm/inch)	108/4.25
Width (mm/inch)	71/2.79
Height(mm/inch)	140/5.51
Total Height (mm/inch)	140/5.51
Approx.Weight (kg/lbs)	2.3/5.07

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.

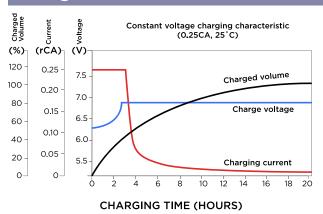
Performance Characteristics							
	20 hour rate (0.7A, 5.25V)	14.0Ah					
Capacity 77°F(25°C)	10 hour rate (1.35A, 5.25V)	13.5Ah					
Capacity // F(25 C)	5 hour rate (2.6A, 5.25V)	13.0Ah					
	1 hour rate (9.8A, 4.8V)	9.8Ah					
Internal Resistance	Full charged Battery77°F(25°	C):15mΩ					
	104°F(40°C)	102%					
Capacity affected by	77°F(25°C)	100%					
Temperature (20 hour rate)	32°F(10°C)	85%					
(20 11041 1410)	5°F(-15°C)	65%					
Calf Disabassa	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 77°F(25°C): 210A(5S)							
Charge	Float: 6.80-6.90 V/77°F/(25°C)						
(Constant Voltage)	Cycle: 7.25-7.45 V/77°F/(25°C) Max. Current: 3.5A						

Disc	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	63.2	40.5	29.5	17.0	9.80	4.06	2.82	1.49	0.73	
1.65V	59.9	38.5	28.3	16.3	9.45	3.93	2.75	1.45	0.72	
1.70V	56.5	36.5	27.0	15.6	9.07	3.80	2.68	1.40	0.71	
1.75V	53.0	34.5	25.7	14.9	8.67	3.65	2.60	1.35	0.70	
1.80V	49.5	32.0	24.2	14.1	8.25	3.50	2.50	1.30	0.68	

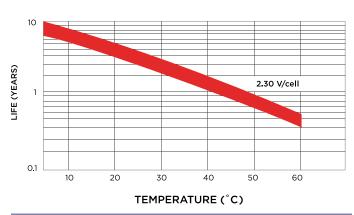
Discharge Constant Power (Watts at 77°F 25°C)									
End Points Volts/Cell	5 min	10 min	15 min	30 min	45 min	1h	2h	3h	5h
1.60V	110	72.0	58.5	34.1	24.5	20.5	11.1	7.70	5.35
1.65V	103	67.8	55.5	32.4	23.5	19.7	10.8	7.50	5.25
1.70V	96.0	63.0	52.5	30.7	22.5	18.8	10.4	7.30	5.15
1.75V	89.0	58.2	49.5	28.9	21.3	17.8	10.0	7.10	5.05
1.80V	81.5	53.5	46.0	27.0	19.8	16.9	9.50	6.85	4.95



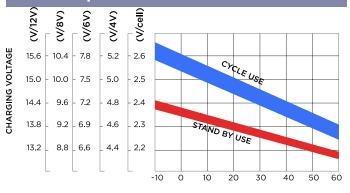
Charge characteristic curve



Temperature effects on float life

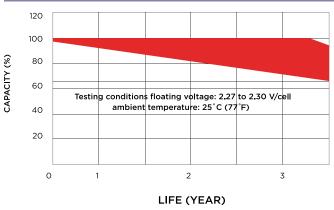


Relationship between charging voltage and temperature

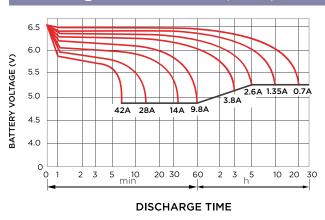


AMBIENT TEMPERATURE (°C)

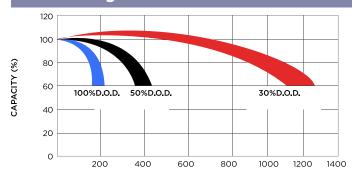
Life characteristics of standby use



Discharge characteristic (25°C)

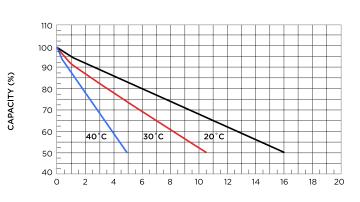


Cycle service life in relation to depth of discharge



NUMBER OF CYCLES (CYCLES)

Self-discharge characteristic



STORAGE TIME: MONTHS

Temperature effects on capacity

