BG-640

(6V 4.0Ah/20hr)

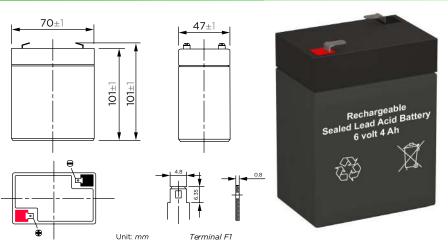
Rechargeable Sealed Lead Acid Battery



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						
	20 hour rate (0.2A, 5.25V)	4.0Ah				
Capacity 77°F(25°C)	5 hour rate (0.7A, 5.25V)	3.5Ah				
	1 hour rate (2.5A, 4.8V)	2.5Ah				
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 Hour rato)	5°F(-15°C)	65%				
0.16 01	Capacity after 3 month storage	90%				
Self-Discharge 68°F(20°C)	Capacity after 6 month storage	80%				
00 1 (20 0)	Capacity after 12month storage	60%				
Max. discharge curren	60 A(5 S)					
	Float:6.80~6.90 V/77°F/(25°C)					
Charge (Constant Voltage)	Cycle:7.25-7.45 V/77°F/(25°C)					
(Constant Voltage)	Max. Current:1A					

Discharge Constant Current (Amperes at 77°F25°C)									
F.V/Time	5 min	10 min	15 min	30 min	1h	3h	5h	10h	20h
1.60V	14.0	8.65	7.05	4.10	2.50	1.15	0.72	0.39	0.21
1.65V	13.2	8.15	6.70	3.93	2.41	1.10	0.72	0.39	0.21
1.70V	12.4	7.72	6.39	3.75	2.32	1.05	0.71	0.38	0.20
1.75V	11.6	7.31	6.10	4.56	2.25	1.00	0.70	0.38	0.20
1.80V	10.9	6.95	5.79	3.39	2.14	0.95	0.68	0.37	0.19

Dis	Discharge Constant Power (Watts at 77° F25°C)									
F.V/Time	5 min	10 min	15 min	30 min	1h	3h	5h	10h	20h	
1.60V	26.8	16.7	13.3	8.33	4.83	1.86	1.22	0.80	0.45	
1.65V	25.1	15.7	12.6	7.92	4.63	1.82	1.20	0.79	0.43	
1.70V	23.5	14.7	11.9	7.49	4.42	1.77	1.18	0.78	0.42	
1.75V	21.8	13.8	11.2	7.05	4.20	1.71	1.16	0.77	0.41	
1.80V	20.2	12.8	10.4	6.62	3.97	1.66	1.13	0.76	0.39	

SPECIFICATION

_6V
3
5 years
70/2.76
47/1.85
101/3.98
107/4.21
0.65/1.43

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	

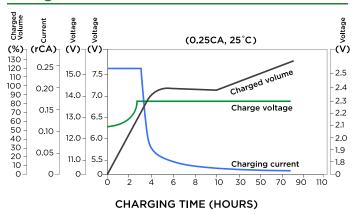
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(Note)The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.

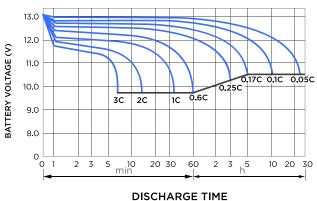
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Battery

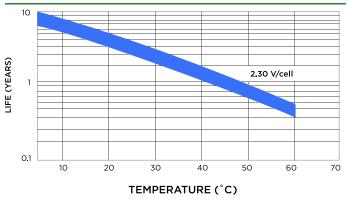
Charge characteristic curve



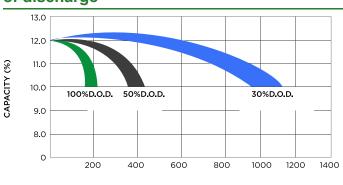
Discharge characteristic (25°C)



Temperature effects on float life

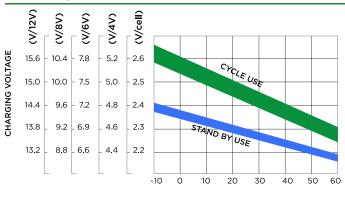


Cycle service life in relation to depth of discharge

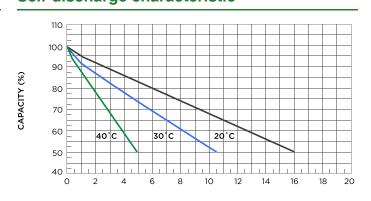


NUMBER OF CYCLES (CYCLES)

Relationship between charging voltage and temperature



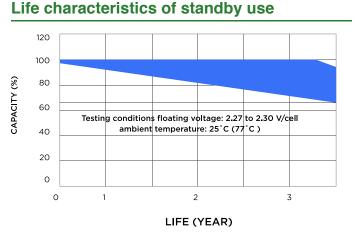
Self-discharge characteristic

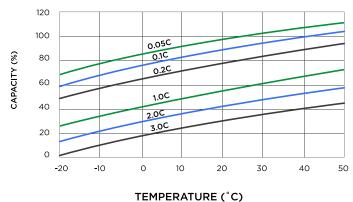


STORAGE TIME: MONTHS

AMBIENT TEMPERATURE (°C)

Temperature effects on capacity





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