BG-645F1

(6V 4.5Ah/20hr)

Rechargeable Sealed Lead Acid Battery

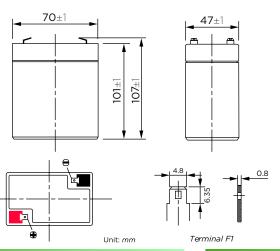


Technical Specification Sheet



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)	4.5Ah			
5 hour rate (0.7A, 5.25V)	3.9Ah			
1 hour rate (2.5A, 4.8V)	2.8Ah			
Full charged Battery77°F(25°C):30mΩ				
104°F(40°C)	102%			
77°F(25°C)	100%			
32°F(10°C)	85%			
5°F(-15°C)	65%			
Capacity after 3 month storage	90%			
Capacity after 6 month storage	80%			
Capacity after 12month storage	60%			
	5 hour rate (0.7A, 5.25V) 1 hour rate (2.5A, 4.8V) Full charged Battery77°F(25° 104°F(40°C) 77°F(25°C) 32°F(10°C) 5°F(-15°C) Capacity after 3 month storage Capacity after 6 month storage			

Max. discharge current 77°F(25°C): 67.5A(5S)

Charge	
(Constant Voltage)	e: 7.25-7.45 V/77°F/(25°C) Max. Current: 1.13A

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	15.8	11.0	8.90	4.80	2.80	1.25	0.87	0.46	0.23
1.65V	15.0	10.5	8.52	4.62	2.70	1.20	0.84	0.45	0.23
1.70V	14.1	10.1	8.10	4.40	2.60	1.15	0.81	0.44	0.23
1.75V	13.3	9.58	7.65	4.23	2.50	1.10	0.78	0.43	0.22
1.80V	12.4	9.00	7.20	3.95	2.40	1.05	0.75	0.42	0.22

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

Discharge Constant Forms (Watto at 17 1 20 0)									
End Points Volts/Cell	5 min	10 min	15 min	30 min	1h	3h	5h	10h	20h
1.60V	31.7	22.2	17.6	9.50	5.33	2.45	1.56	0.90	0.52
1.65V	29.7	20.9	16.6	9.03	5.11	2.39	1.54	0.89	0.49
1.70V	27.7	19.6	15.7	8.54	4.87	2.33	1.51	0.88	0.48
1.75V	25.8	18.3	14.7	8.04	4.63	2.26	1.47	0.87	0.46
1.80V	23.9	17.1	13.7	7.54	4.38	2.18	1.44	0.86	0.44

SPECIFICATION

Nominal voltage	_6V
Number of cells	. 3
Length (mm/inch)	70/2.76
Width (mm/inch)	47/1.85
Height (mm/inch)	_ 101/3.98
Total Height (mm/inch)	_ 107/4.21
Approx.Weight (kg/lbs)	_ 0.75/1.65

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

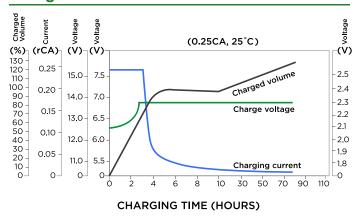
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(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.

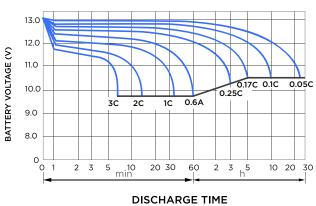
Page 1 of 2

Battery .

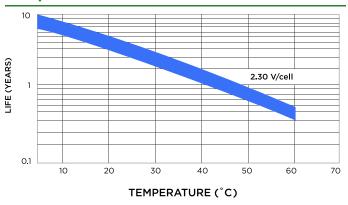
Charge characteristic curve



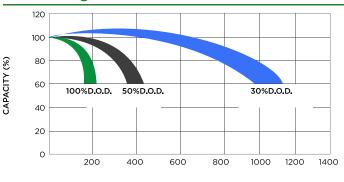
Discharge characteristic (25°C)



Temperature effects on float life

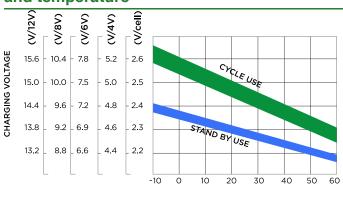


Cycle service life in relation to depth of discharge

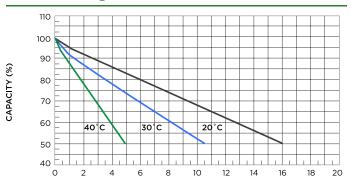


NUMBER OF CYCLES (CYCLES)

Relationship between charging voltage and temperature



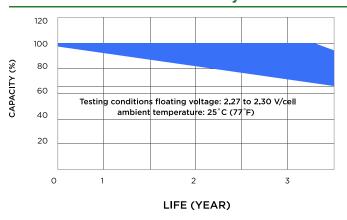
Self-discharge characteristic



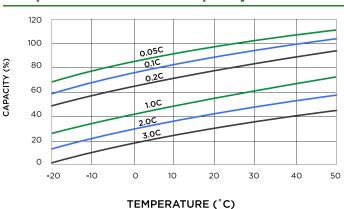
AMBIENT TEMPERATURE (°C)

STORAGE TIME: MONTHS

Life characteristics of standby use



Temperature effects on capacity



<u>batteryguy.com</u> Page 2 of 2