

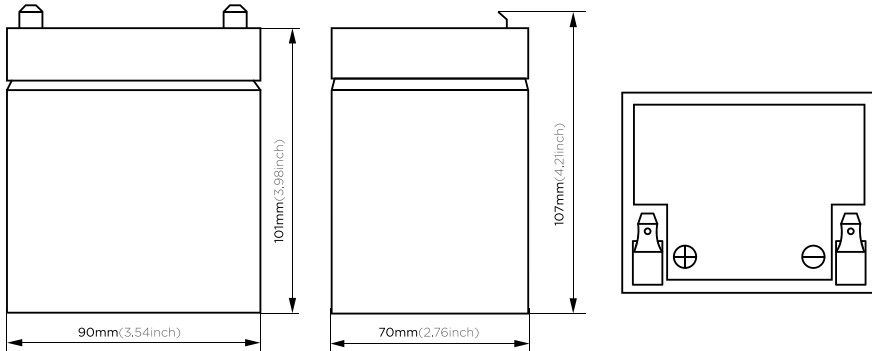
# BGH-1255F2

(12V 5.5Ah)

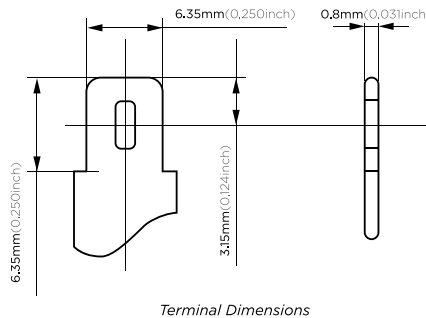
Rechargeable Sealed Lead Acid Battery (High Rate Series)



Technical Specification Sheet



General Series Valve Regulated Lead Acid batteries are designed with AGM (Absorbent Glass Mat) technology, high performance plates and electrolyte to gain extra power output for many commonly used applications. Special one-way valves allow excessive gases to escape but otherwise the battery is completely sealed and therefore maintenance-free, leak proof and usable in any position



## Application

- Alarm System
- Cable Television
- Communication Equipment
- Control Equipment
- Security System
- Medical Equipment
- UPS
- Emergency Power System
- Toys

## Performance Characteristics

<b>Designed Floating Life</b>	5 Years			
<b>Capacity (25°C)</b>	20HR(0.26A,1.75V)	10HR(0.5A,1.75V)	5HR(0.9A,1.75V)	1HR(4.08A,1.75V)
	5.5AH	5AH	4.2AH	3.9AH
<b>Dimensions</b>	Length	Width	Height	Total Height
	90mm(3.54inch)	70mm(2.76inch)	101mm(3.98inch)	107mm(4.21inch)
<b>Approx. Weight</b>	1.65kg(3.63lbs)			
<b>Internal Resistance</b>	Full charged at 25°C: 0.025 Ohm			
<b>Self Discharge</b>	3% of capacity declined per month at (25°C)			
<b>Capacity Affected by Temp. (20HR)</b>	40°C	25°C	0°C	-15°C
	102%	100%	85%	65%
<b>Charge Voltage (25°C)</b>	Cycle use		Float use	
	14.4-15V(-30mV/°C), max. Current: 1.5A		13.6-13.8V(-20mV/°C)	

## General Features

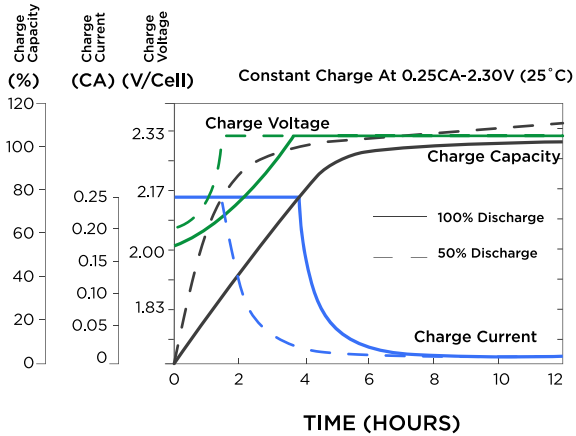
- Superb high-rate discharge characteristics that ensure reliable performance in UPS applications.
- Sealed non-spillable maintenance free operation.
- Flexible installation in any position.
- ABS containers and covers (UL94HB, UL94V0) optional.
- VRLA Absorbent Glass Mat (AGM) Technology guarantees safe operation without maintenance.
- Approved for transport by air. D.O.T., I.A.T.A. and F.A.A. certified.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self-discharge characteristics

## Battery Construction

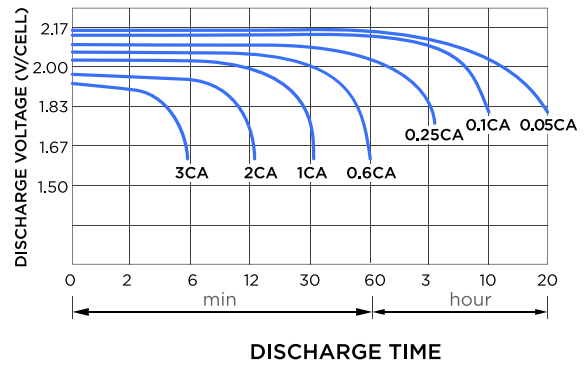
Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid



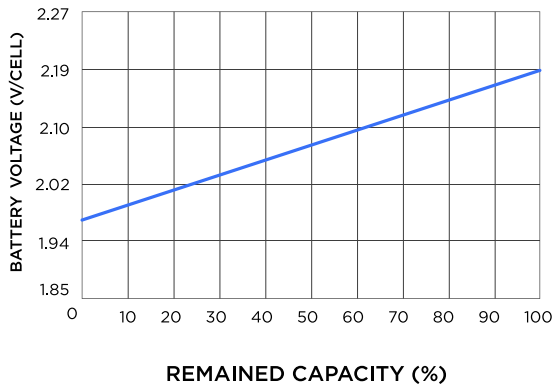
**Charge characteristic**



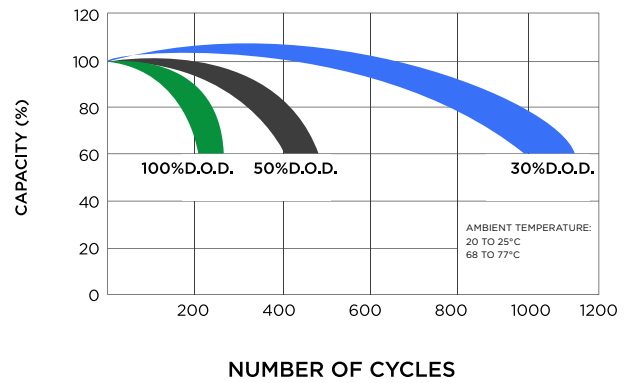
**Discharge characteristic (25°C)**



**Relationship of OCV and state of charge**



**Self-discharge characteristic**



**Constant current discharge ratings (Amperes at 77°F 25°C)**

F. V / T i m e	5 min	10 min	15 min	30 min	1HR	3HR	5HR	10HR	20HR
1.60V	28.4	17.6	13.3	8.12	4.26	1.72	1.05	0.57	0.31
1.67V	26.6	16.7	12.8	7.76	4.21	1.65	1.03	0.57	0.30
1.70V	24.4	16.1	12.5	7.06	4.08	1.54	1.00	0.56	0.29
1.75V	23.9	15.6	12.1	6.71	3.89	1.49	0.98	0.56	0.29
1.80V	21.4	14.9	11.0	6.21	3.64	1.43	0.92	0.55	0.28
1.85V	18.9	14.2	9.9	5.72	3.39	1.38	0.87	0.54	0.27

**Constant power discharge ratings (Watts at 77°F 25°C)**

F. V / T i m e	5 min	10 min	15 min	30 min	1HR	3HR	5HR	10HR	20HR
1.60V	49.8	31.9	24.3	14.6	7.70	3.04	1.77	1.17	0.62
1.67V	48.0	31.1	24.0	14.3	7.65	2.95	1.76	1.17	0.59
1.70V	45.2	30.8	23.8	13.4	7.50	2.82	1.74	1.16	0.59
1.75V	45.5	30.7	23.6	13.0	7.38	2.75	1.73	1.14	0.57
1.80V	41.6	30.2	21.9	12.4	6.95	2.67	1.67	1.13	0.56
1.85V	37.8	28.7	19.8	11.6	6.54	2.59	1.62	1.11	0.54