

Gel Series SLA Battery

Gel Series

Gel series batteries are designed to meet the requirements of frequent cyclic and high temperature applications such as broadband, PVs etc through up-to-date gel technologies. BOSFA Gel batteries uses German origin high purity fumed silica to form sulfuric acid thixotropic Gel and fills to the batteries with vacuum to ensure the fully penetration of electrolyte through separators and plates pastes.

Application

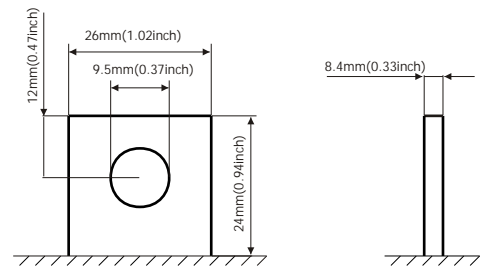
- Alarm System
- Cable Television
- Communication Equipment
- Control Equipment
- Security System
- Medical Equipment
- UPS
- Power tools
- Emergency Power System
- Toys

General Features

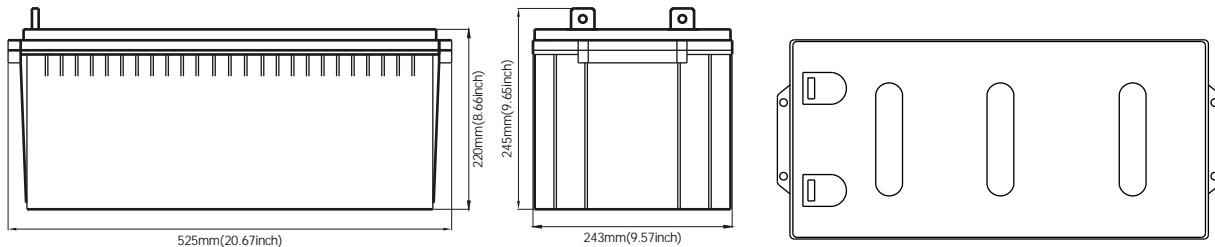
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.
- Flexibility design for multiple install positions.

Construction

- | | | | |
|-----------|-------------------|--------------|------------------------------------|
| Component |Raw material | Sealant |Epoxy Resin |
| Positive |Lead dioxide | Safety valve |EPDR |
| Negative |Lead | Terminal |Copper |
| Container |ABS | Separator |Macromolecule polymer |
| Cover |ABS | Electrolyte |sulfuric acid thixotropic Gel |

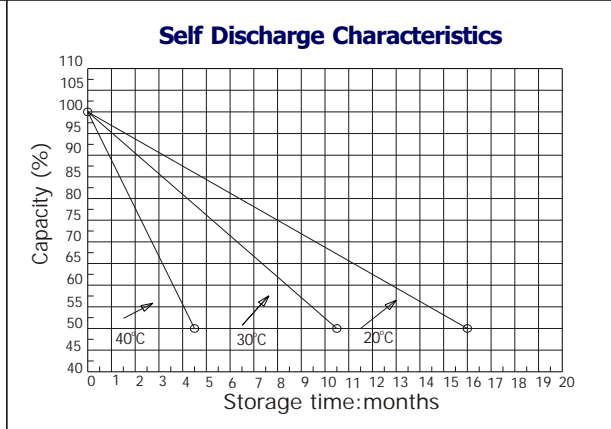
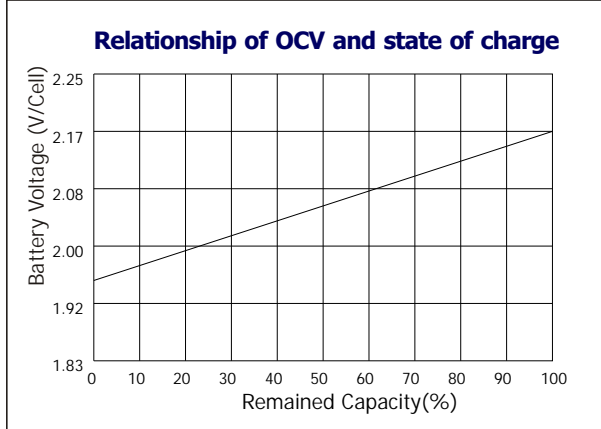
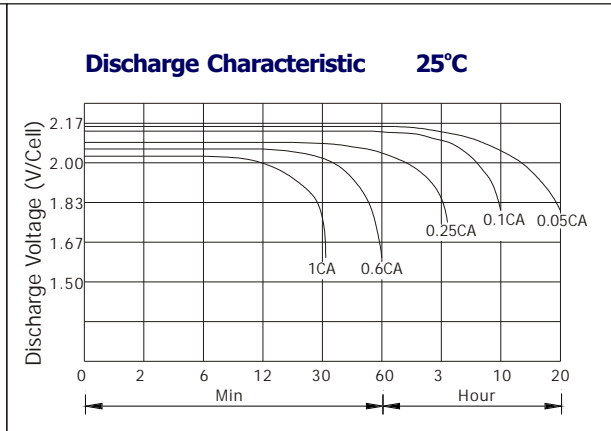
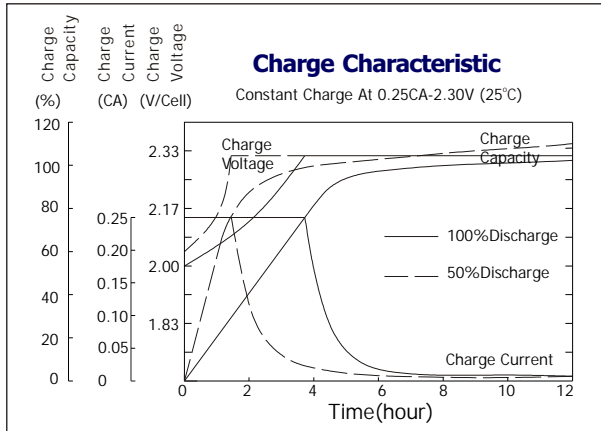


Terminal Dimensions



Battery Model	GEL12-200			
Designed Life	12 Years (Floating) or > 750 Cycles @ 50% D.O.D			
Capacity(25°C)	20HR(10.1A,1.75V)	10HR(20A,1.75V)	5HR(34A,1.75V)	1HR(126A,1.75V)
	202AH	200AH	170AH	126AH
Dimensions	Length	Width	Height	Total Height
	525mm(20.67inch)	243mm(9.57inch)	220mm(8.66inch)	245mm(9.65inch)
Approx. Weight	63Kg (138.92 lbs)			
Internal Resistance	Full charged at 25°C: 0.004 Ohm			
Self Discharge	3% of capacity declined per month at (25°C)			
Capacity Affected by Temp.(20HR)	40°C	25°C	0°C	-15°C
	102%	100%	85%	65%
Charge Voltage(25°C)	Cycle use		Float use	
	14.4-15V(-30mV/ °C), max. Current: 50A		13.6-13.8V(-20mV/ °C)	

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Constant current discharge ratings-amperes at 25°C

F. V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	700	480	350	210	132	54.6	38.2	21.2	10.5
1.67V	630	438	340	204	132	54.4	37.8	20.9	10.5
1.70V	598	422	328	200	131	54.4	37.8	20.7	10.5
1.75V	532	390	310	196	130	54.0	37.5	20.4	10.5
1.80V	480	362	296	190	128	53.8	37.2	20.0	10.1
1.85V	364	298	256	175	127	53.6	36.9	19.7	9.88

Constant power discharge ratings-watts at 25°C

F. V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	1154	796	620	396	260	105	73.0	42.4	21.1
1.67V	1094	786	614	388	251	105	73.0	41.8	21.0
1.70V	1022	766	604	378	245	105	73.0	41.5	21.0
1.75V	952	716	568	368	243	103	72.2	40.7	20.9
1.80V	854	666	534	358	238	102	71.0	40.0	20.2
1.85V	684	552	466	328	236	101	70.0	39.3	19.8

