

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

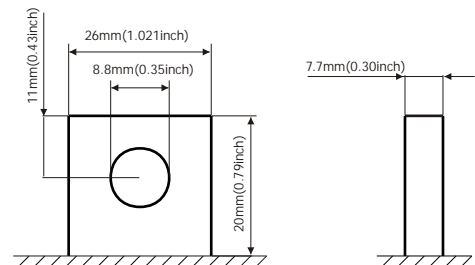
- Alarm System
- Cable Television
- Communication Equipment
- Control Equipment
- Security System
- Medical Equipment
- UPS
- Power tools
- Emergency Power System
- Toys

General Features

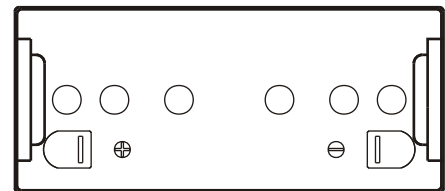
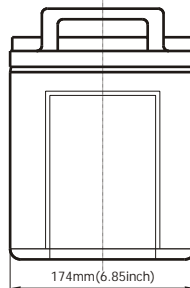
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.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

Construction

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

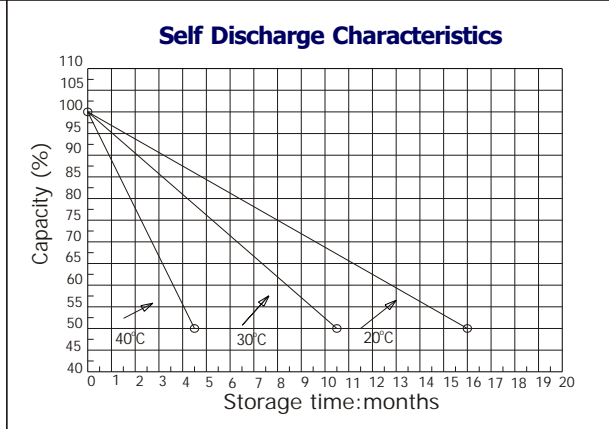
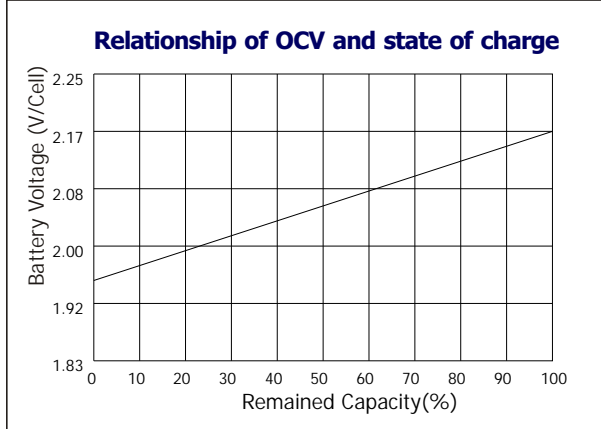
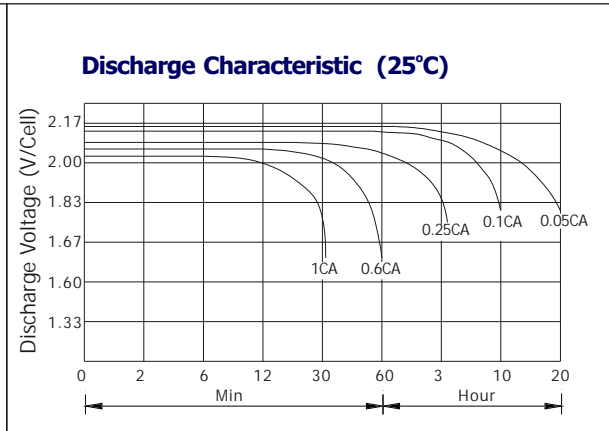
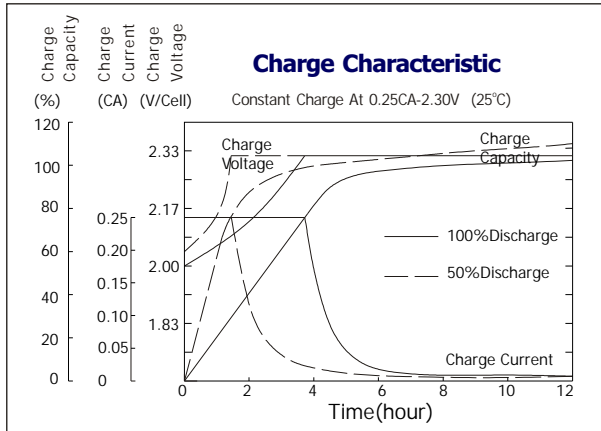


Terminal Dimensions



Battery Model	GEL12-120			
Designed Life	12 Years (Floating) or > 750 Cycles @ 50% D.O.D			
Capacity(25°C)	20HR(6.1A,1.75V)	10HR(12A,1.75V)	5HR(20A,1.75V)	1HR(75A,1.75V)
	122AH	120AH	100AH	75AH
Dimensions	Length	Width	Height	Total Height
	406mm(16.0inch)	174mm(6.85inch)	208mm(8.19inch)	233mm(9.17inch)
Approx. Weight	37Kg (81.58 lbs)			
Internal Resistance	Full charged at 25°C: 0.0045 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: 30A		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	420	288	210	126	79.2	32.8	22.9	12.7	6.32
1.67V	378	263	204	122	79.1	32.6	22.7	12.5	6.30
1.70V	359	253	197	120	78.8	32.6	22.7	12.4	6.30
1.75V	319	234	186	118	78.0	32.4	22.5	12.2	6.27
1.80V	288	217	178	114	77.0	32.3	22.3	12.0	6.05
1.85V	218	179	154	105	76.2	32.2	22.2	11.8	5.92

Constant power discharge ratings-watts at 25°C

F. V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	692	478	372	238	156	62.9	43.8	25.5	12.6
1.67V	656	472	368	233	151	62.9	43.8	25.1	12.6
1.70V	613	460	362	227	147	62.9	43.8	24.9	12.6
1.75V	571	430	341	221	146	61.9	43.3	24.4	12.5
1.80V	512	400	320	215	143	61.1	42.6	24.0	12.1
1.85V	410	331	280	197	142	60.8	42.0	23.6	11.9

