

**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**

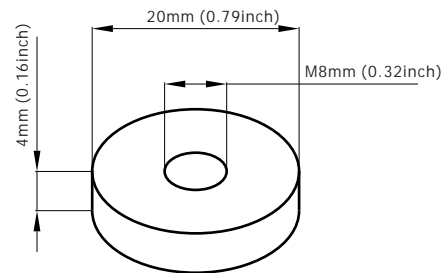
- Alarm System
- Cable Television
- Communication Equipment
- Control Equipment
- Security System
- Medical Equipment
- UPS
- Power tools
- Emergency Power System
- Toys

**General Features**

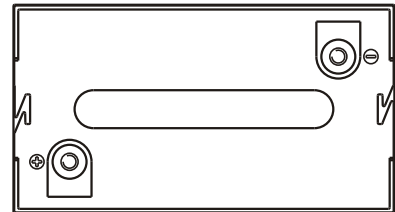
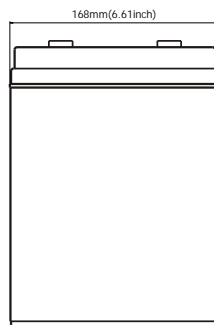
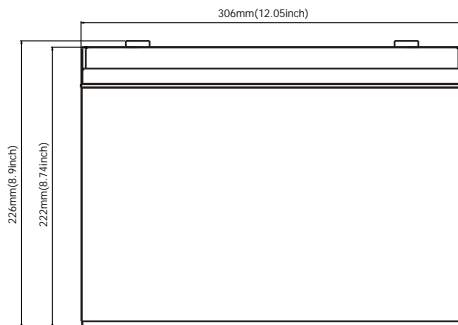
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.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

**Construction**

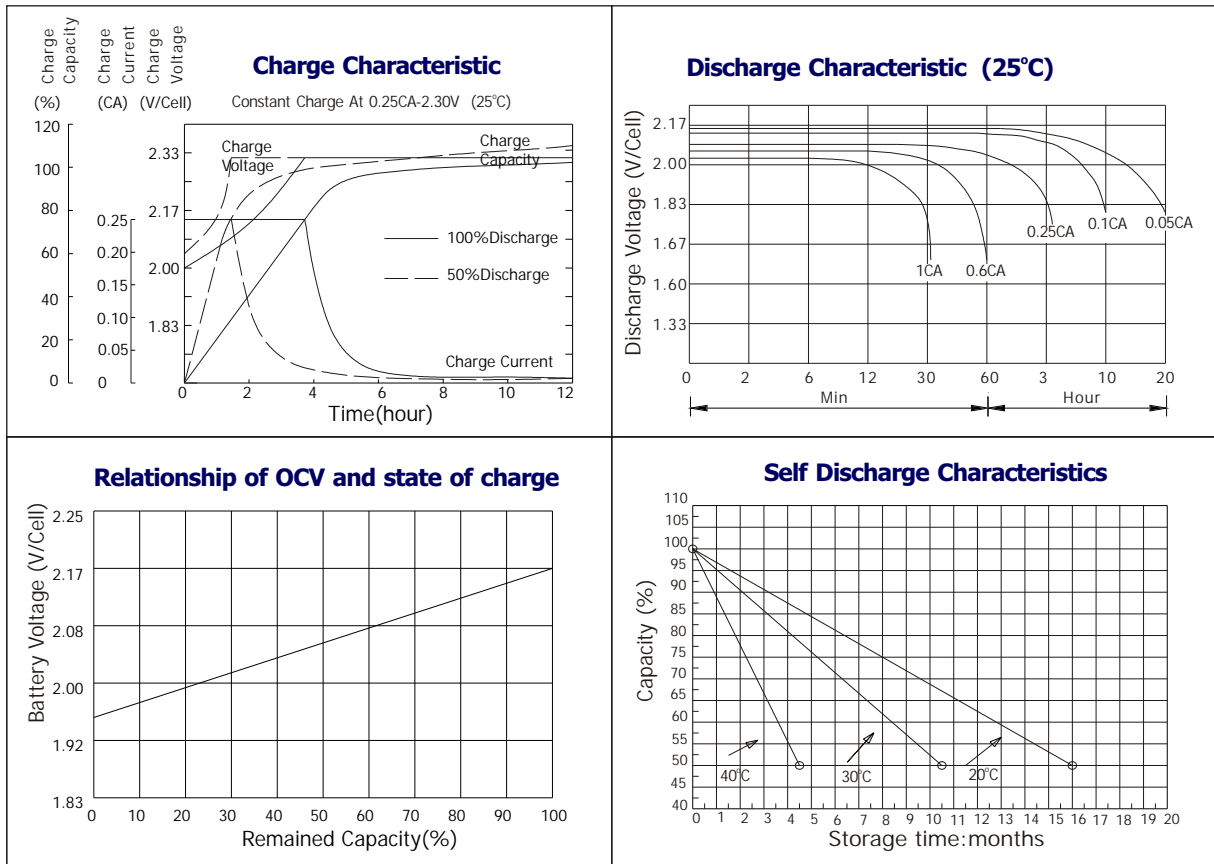
- Component .....Raw material
- Positive .....Lead dioxide
- Negative .....Lead
- Container .....ABS
- Cover .....ABS
- Sealant .....Epoxy Resin
- Safety valve .....EPDR
- Terminal .....Copper
- Separator .....Macromolecule polymer
- Electrolyte .....sulfuric acid thixotropic Gel



**Terminal Dimensions**



Battery Model	GEL6-180			
Designed Life	>300 Cycles @ 100% D.O.D or >3000 Cycles @ 10% D.O.D			
Capacity(25°C)	20HR(9.2A,1.75V)	10HR(18A,1.75V)	5HR(30.6A,1.75V)	1HR(117A,1.75V)
	184AH	180AH	153AH	117AH
Dimensions	Length	Width	Height	Total Height
	306mm(12.05inch)	168mm(6.61inch)	222mm(8.74inch)	226mm(8.9inch)
Approx. Weight	28 Kg (61.74 lbs)			
Internal Resistance	Full charged at 25°C: 0.0033 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	
	7.2-7.5V(-15mV/ °C), max. Current: 45A		6.8-6.9V(-10mV/ °C)	



**Constant current discharge ratings-amperes at 25°C**

F. V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	630	432	315	189	119	49.1	34.3	19.1	9.5
1.67V	567	394	306	184	119	49.0	34.1	18.8	9.5
1.70V	538	380	295	180	118	49.0	34.1	18.7	9.5
1.75V	479	351	279	176	117	48.6	33.8	18.3	9.4
1.80V	432	326	266	171	116	48.4	33.5	18.0	9.1
1.85V	328	268	230	157	114	48.2	33.2	17.7	8.88

**Constant power discharge ratings-watts at 25°C**

F. V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	1039	716	558	356	234	94	65.7	38.2	19.0
1.67V	985	707	553	349	226	94	65.7	37.6	18.9
1.70V	920	689	544	340	220	94	65.7	37.3	18.9
1.75V	857	644	511	331	218	93	65.0	36.7	18.8
1.80V	769	599	481	322	215	92	63.9	36.0	18.2
1.85V	616	497	419	295	213	91	63.0	35.4	17.8

