

Gel Series SLA Battery

GEL Plus Batteries

The GEL Plus range of gel technology batteries offers outstanding performance including a 15+ years design life. The GEL Plus batteries is designed based on the LSE series, using the polymer gel electrolyte. Built to the highest standards and compliant with the latest IEC60896- 21/ 22 standard. this range also offers 100% capacity out- of- the- box and is capable of handling deep discharges for complete peace of mind. The use of flexible connectors and the ability to be installed both horizontally and vertically allows for multiple installation possibilities.



Application

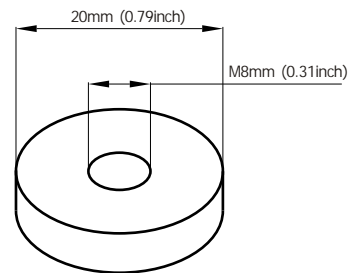
- Correspondence exchange and transmission system
- Mobile communication system
- Power plant and power transformer system
- Radio and broadcasting station
- Navigation and signaling system
- Emergency power system
- UPS
- Other spare, circulatory system

General Features

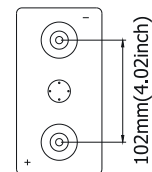
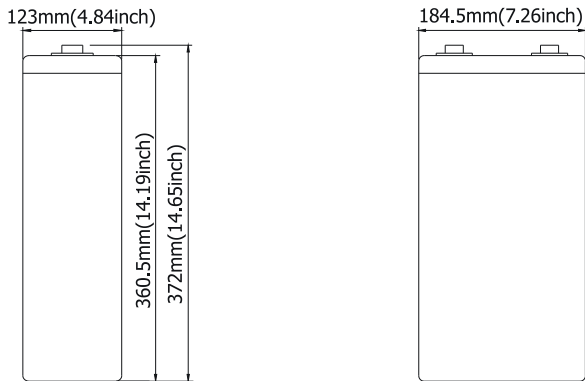
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.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

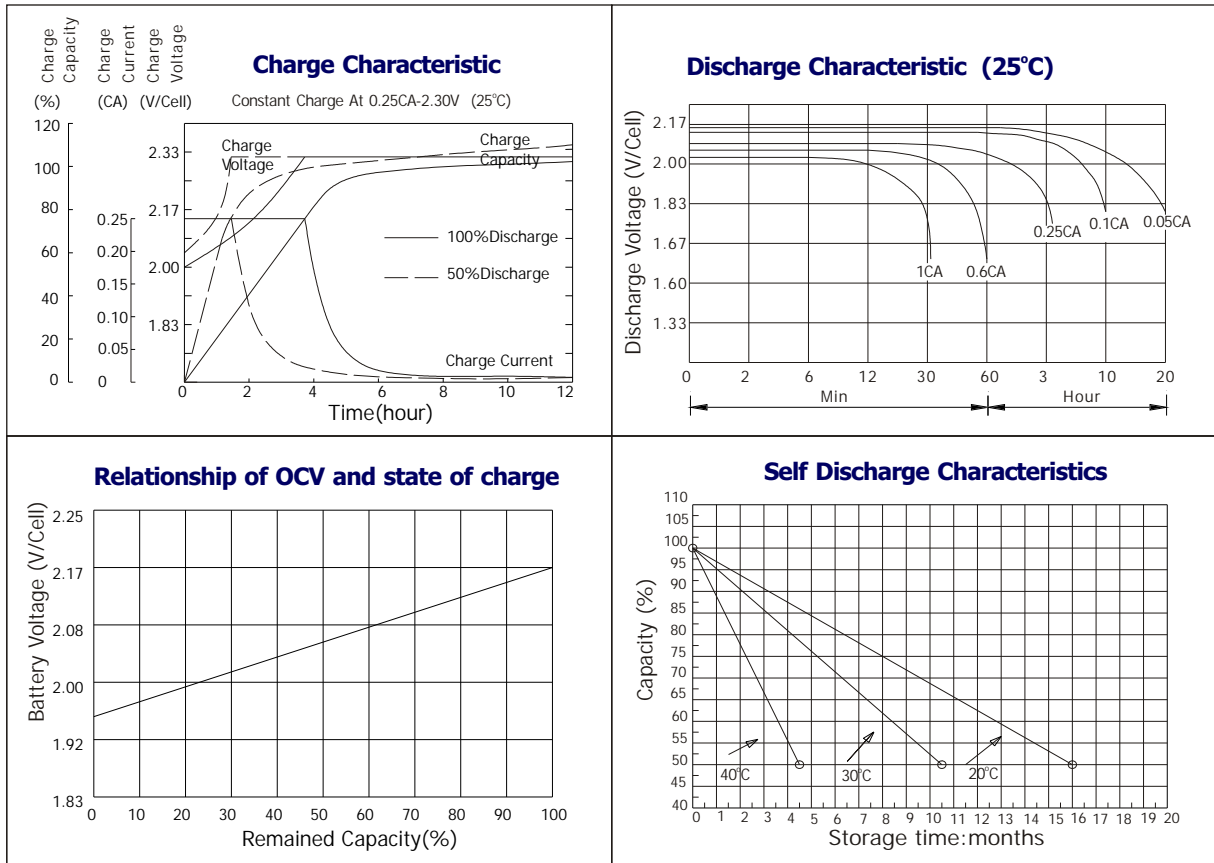


Terminal Dimensions



Battery Model	GELPlus2-300			
Designed Floating Life	15 Years			
Capacity(25°C)	20HR(15.5A,1.75V)	10HR(30A,1.75V)	5HR(54A,1.75V)	1HR(194.1A,1.75V)
	309.9AH	300AH	270AH	194.1AH
Dimensions	Length	Width	Height	Total Height
	123mm(4.84inch)	184.5mm(7.26inch)	360.5mm(14.19inch)	372mm(14.65inch)
Approx. Weight	19.4Kg (42.78 lbs)			
Internal Resistance	Full charged at 25°C: 0.00047 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	
	2.3V-2.35V(-5mV/ °C), max. Current: 75A		2.25-2.27V(-3.3mV/ °C)	

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Constant current discharge ratings - amperes at 25 °C

End Voltage \ Time	5min	15min	30min	60min	2hour	3hour	5hour	6hour	8hour	10hour	24hour
1.60V	500	419	310	196	116	84.8	57.5	49.6	39.6	32.8	14.8
1.65V	462	390	297	186	113	82.7	56.1	48.9	39.0	32.5	14.7
1.70V	432	366	273	178	109	80.3	55.6	48.3	38.3	32.0	14.7
1.75V	411	347	254	169	105	77.8	54.1	47.5	37.8	31.5	14.5
1.80V	396	327	238	159	100	75.4	52.8	46.3	37.1	30.8	14.3
1.83V	368	307	226	149	95.9	73.0	51.6	45.5	36.5	30.2	14.0
1.85V	350	290	212	143	90.6	71.6	51.0	44.8	36.1	30.0	13.8
1.88V	326	264	199	137	88.6	70.1	50.5	44.2	35.6	29.8	13.7
1.90V	301	245	182	127	84.9	67.1	49.1	43.2	34.7	29.0	13.5
1.94V	271	218	161	113	76.7	61.7	45.5	40.1	32.4	27.3	13.1

Constant power discharge ratings - watts at 25 °C

End Voltage \ Time	5min	15min	30min	60min	2hour	3hour	5hour	6hour	8hour	10hour	24hour
1.60V	850	712	567	404	261	193	128	109	85.1	69.5	31.3
1.65V	808	683	536	373	239	181	123	105	82.0	67.8	30.7
1.70V	777	659	523	355	232	175	120	103	80.2	65.8	30.1
1.75V	753	634	505	342	224	168	117	101	77.2	64.8	29.8
1.80V	732	604	487	334	220	162	114	98.0	75.2	63.9	29.4
1.83V	692	577	459	322	211	158	112	95.0	73.8	62.6	29.0
1.85V	666	550	433	303	202	154	109	92.8	72.8	61.4	28.2
1.88V	629	510	403	285	188	149	105	89.5	70.8	59.9	27.5
1.90V	588	478	365	261	175	143	102	86.7	68.1	56.9	26.4
1.94V	531	428	327	232	162	133	96.2	83.2	65.3	54.5	26.1

