

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

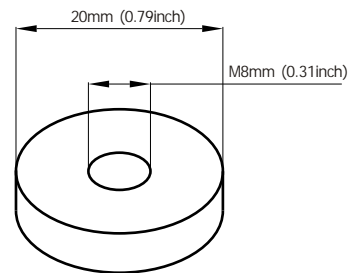
- Correspondence exchange and transmission system
- Mobile communication system
- Power plant and power transformer system
- Radio and broadcasting station
- Navigation and signaling system
- Emergency power system
- UPS
- Other spare, circulatory system

General Features

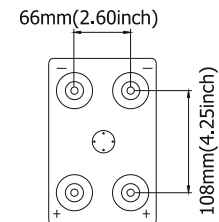
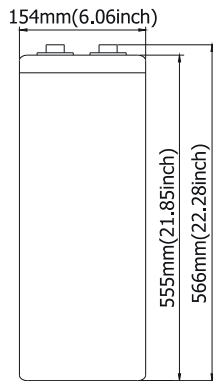
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.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

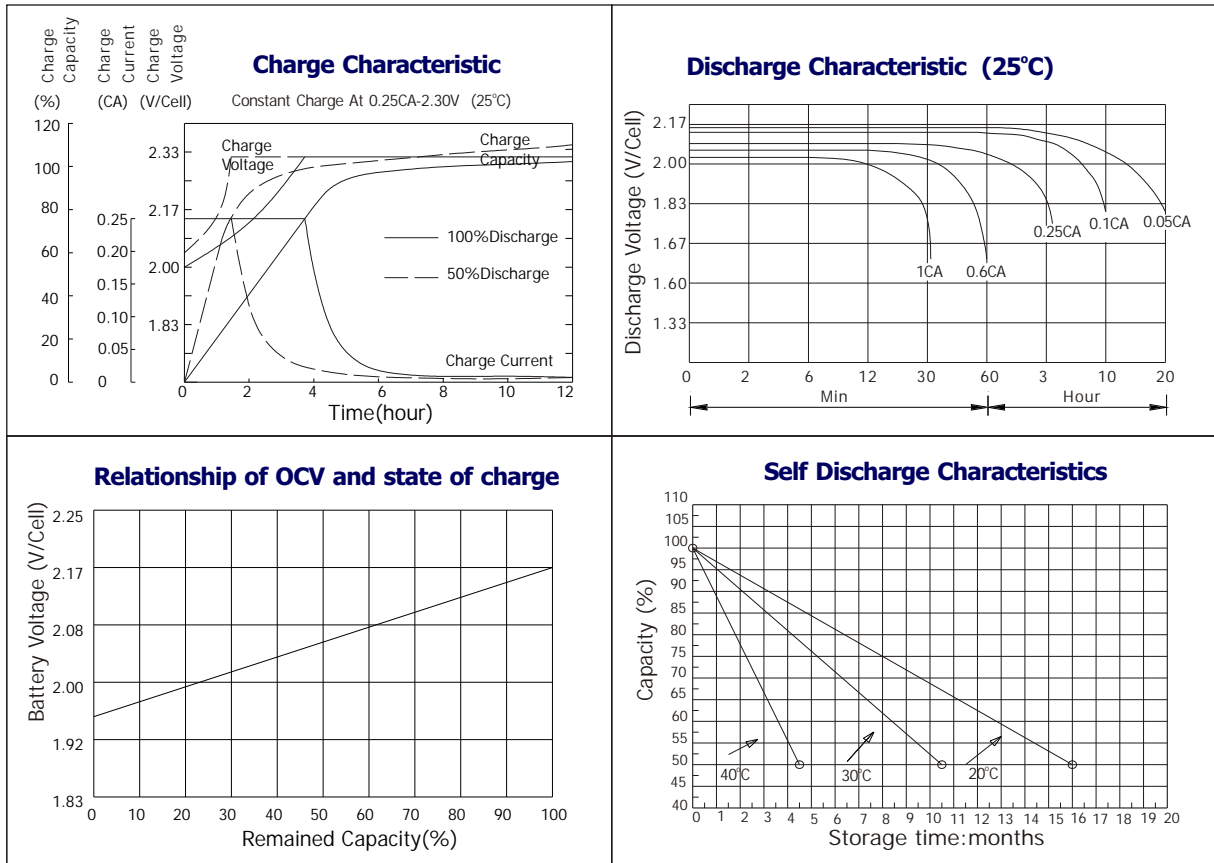


Terminal Dimensions



Battery Model	GELPlus2-800			
Designed Floating Life	15 Years			
Capacity(25°C)	20HR(41.3A,1.75V)	10HR(80A,1.75V)	5HR(144A,1.75V)	1HR(440A,1.75V)
	826AH	800AH	720AH	440AH
Dimensions	Length	Width	Height	Total Height
	154mm(6.06inch)	229mm(9.02inch)	555mm(21.85inch)	566mm(22.28inch)
Approx. Weight	52.7Kg (116.2 lbs)			
Internal Resistance	Full charged at 25°C: 0.00022 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: 200A		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	1158	975	792	522	321	236	154	133	104	86.0	39.9
1.65V	1086	917	722	493	312	229	152	131	103	85.5	39.3
1.70V	1021	868	661	468	301	219	148	128	102	84.2	39.1
1.75V	963	817	609	442	290	214	146	126	100	83.5	38.8
1.80V	910	762	570	420	281	209	142	124	98.2	82.4	38.0
1.83V	843	701	532	396	269	203	140	122	97.6	82.0	38.0
1.85V	781	648	501	371	253	192	134	117	94.2	79.0	36.9
1.88V	717	586	646	337	135	181	127	111	90.8	76.0	35.8
1.90V	640	512	417	307	212	171	121	106	85.4	72.0	34.4
1.94V	576	465	383	276	189	147	106	94	76.6	65.3	30.6

Constant power discharge ratings - watts at 25 °C

End Voltage \ Time	5min	15min	30min	60min	2hour	3hour	5hour	6hour	8hour	10hour	24hour
1.60V	1969	1657	1369	999	635	471	321	282	230	190	83.6
1.65V	1901	1605	1316	967	609	459	313	276	225	185	82.0
1.70V	1837	1563	1273	931	585	450	307	269	221	184	80.4
1.75V	1762	1495	1197	878	559	441	301	261	216	182	79.6
1.80V	1683	1410	1119	808	539	428	293	256	212	179	78.4
1.83V	1584	1319	1045	756	519	418	285	249	206	176	77.2
1.85V	1484	1232	966	692	499	404	277	242	199	170	75.2
1.88V	1384	1132	871	634	474	382	269	236	194	165	73.3
1.90V	1247	998	790	587	450	368	259	228	187	160	70.5
1.94V	1129	912	698	529	414	337	236	205	168	144	69.7

