

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

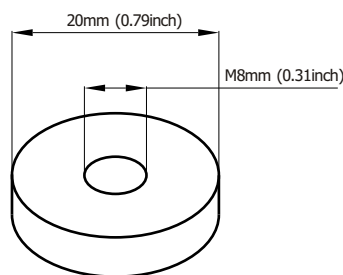
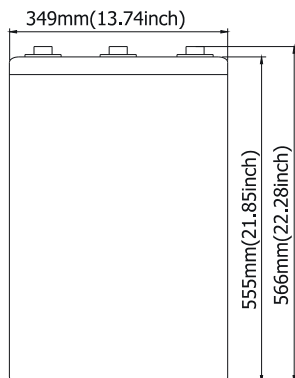
- Correspondence exchange and transmission system
- Mobile communication system
- Power plant and power transformer system
- Radio and broadcasting station
- Navigation and signaling system
- Emergency power system
- UPS
- Other spare, circulatory system

General Features

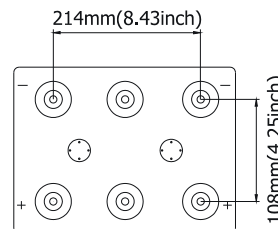
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.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

Construction

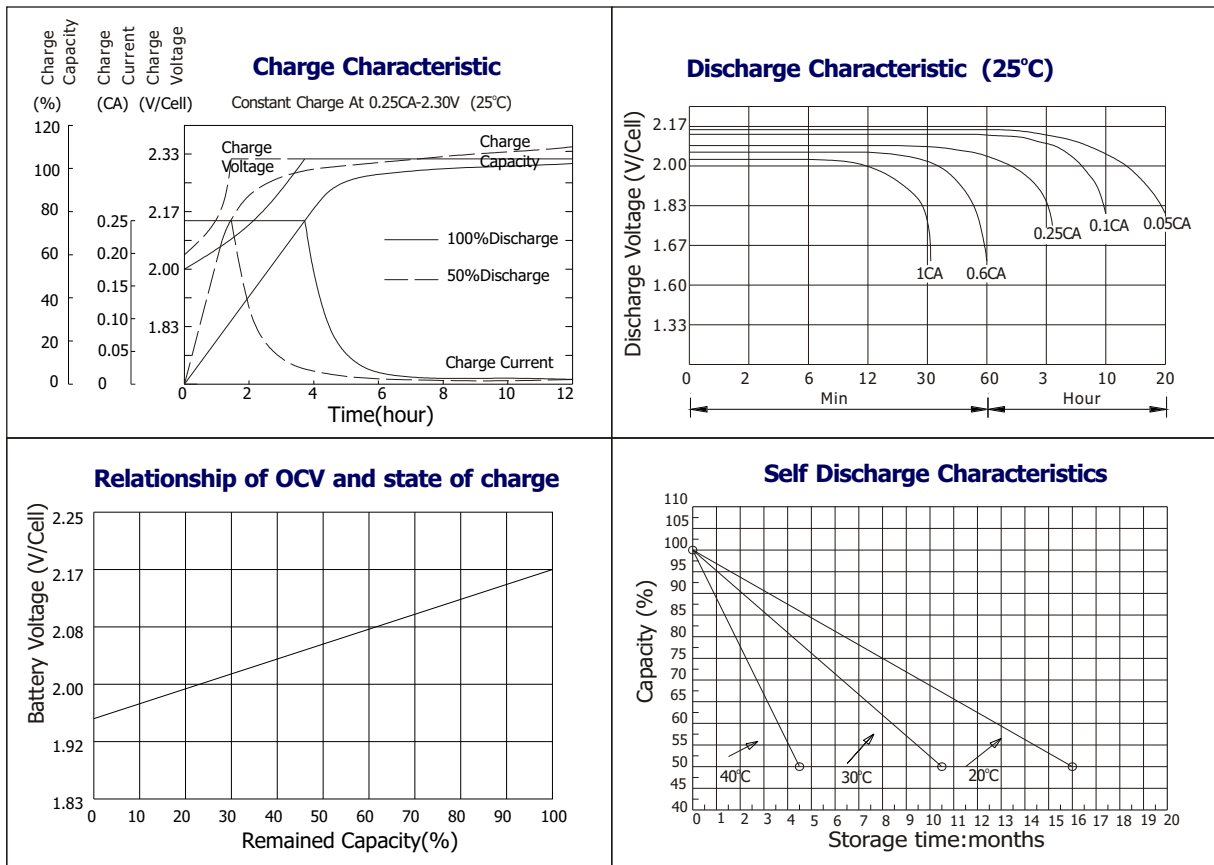
Component	Raw material	Sealant	Epoxy Resin
Positive	Lead dioxide	Safety valve	EPDR
Negative	Lead	Terminal	Copper
Container	ABS	Separator	Macromolecule polymer
Cover	ABS	Electrolyte	sulfuric acid thixotropic Gel



Terminal Dimensions



Battery Model	GELPlus2-2000			
Designed Floating Life	15 Years			
Capacity(25°C)	20HR(103.3A,1.75V)	10HR(200A,1.75V)	5HR(360A,1.75V)	1HR(1294A,1.75V)
	2066AH	2000AH	1800AH	1294AH
Dimensions	Length	Width	Height	Total Height
	349mm(13.74inch)	233mm(9.17inch)	555mm(21.85inch)	566mm(22.28inch)
Approx. Weight	122Kg (269.01 lbs)			
Internal Resistance	Full charged at 25°C: 0.00011 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: 375A		2.25-2.27V(-3.3mV/ °C)	



Constant current discharge ratings - amperes at 25 C

Time End Voltage	5min	15min	30min	60min	2hour	3hour	5hour	6hour	8hour	10hour	24hour
1.60V	2896	2437	1980	1305	802	589	385	332	260	215	99.7
1.65V	2715	2293	1806	1232	779	573	380	328	257	214	98.2
1.70V	2552	2170	1651	1170	752	547	371	320	254	211	97.8
1.75V	2407	2043	1523	1105	725	535	364	315	250	209	96.9
1.80V	2274	1905	1426	1049	703	523	356	309	246	206	94.9
1.83V	2106	1754	1331	990	673	507	351	305	244	205	94.9
1.85V	1953	1621	1253	927	634	480	334	292	236	198	92.2
1.88V	1793	1466	1160	842	589	452	318	278	227	190	89.4
1.90V	1599	1279	1042	766	530	428	302	265	214	180	86.0
1.94V	1440	1163	956	689	473	367	266	234	192	163	76.6

Constant power discharge ratings - watts at 25°C

Time End Voltage	5min	15min	30min	60min	2hour	3hour	5hour	6hour	8hour	10hour	24hour
1.60V	5666	4745	3779	2693	1738	1287	850	726	568	463	209
1.65V	5389	4554	3574	2488	1594	1208	820	703	547	452	205
1.70V	5181	4392	3485	2369	1548	1165	802	689	535	439	201
1.75V	5019	4227	3366	2277	1493	1122	782	673	515	432	199
1.80V	4881	4029	3247	2224	1465	1082	760	653	502	426	196
1.83V	4613	3845	3062	2145	1406	1056	745	634	492	418	193
1.85V	4439	3670	2888	2023	1346	1025	725	619	485	409	188
1.88V	4191	3399	2685	1901	1251	990	701	597	472	399	183
1.90V	3917	3185	2435	1742	1168	950	677	578	454	380	176
1.94V	3541	2851	2182	1544	1079	883	642	554	436	363	174