

**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**

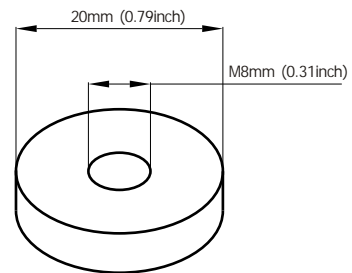
- Correspondence exchange and transmission system
- Mobile communication system
- Power plant and power transformer system
- Radio and broadcasting station
- Navigation and signaling system
- Emergency power system
- UPS
- Other spare, circulatory system

**General Features**

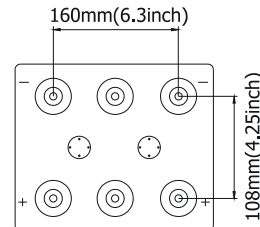
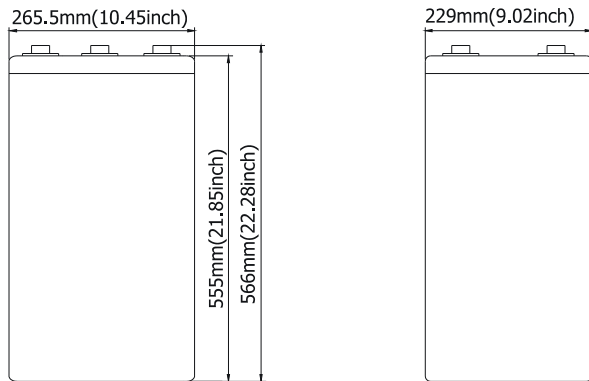
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.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

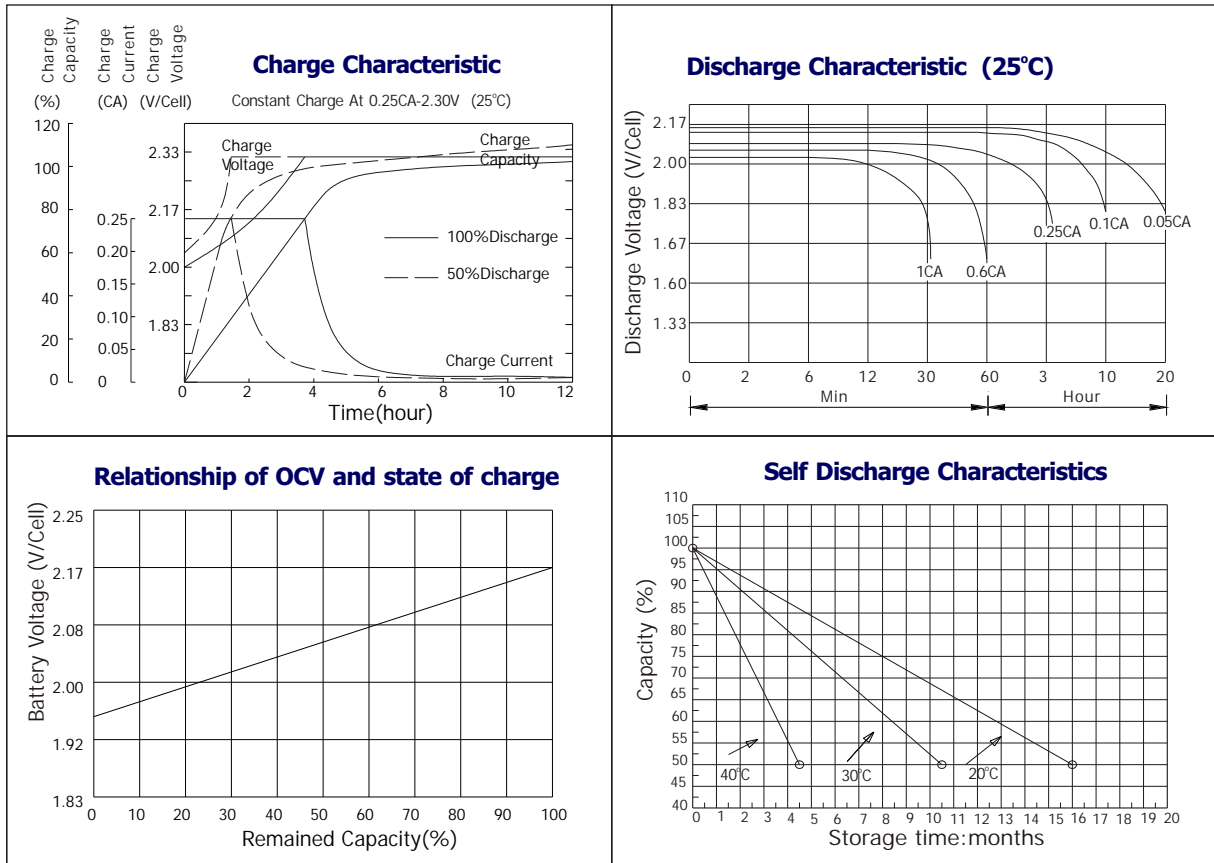


**Terminal Dimensions**



Battery Model	GELPlus2-1500			
Designed Floating Life	15 Years			
Capacity(25°C)	20HR(77.5A, 1.75V)	10HR(150A, 1.75V)	5HR(270A, 1.75V)	1HR(970.5A, 1.75V)
	1550AH	1500AH	1350AH	970.5AH
Dimensions	Length	Width	Height	Total Height
	265.5mm(10.45inch)	229mm(9.02inch)	555mm(21.85inch)	566mm(22.28inch)
Approx. Weight	93.2Kg (205.51 lbs)			
Internal Resistance	Full charged at 25°C: 0.00015 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)	

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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		2172	1827	1485	979	601	442	289	249	195	161	74.7
1.65V		2037	1720	1354	924	584	430	285	246	193	160	73.7
1.70V		1914	1628	1239	878	564	410	278	240	190	158	73.4
1.75V		1806	1532	1142	829	544	401	273	236	188	157	72.7
1.80V		1706	1429	1069	787	527	392	267	232	184	154	71.2
1.83V		1580	1315	998	743	505	380	263	229	183	154	71.2
1.85V		1465	1215	940	695	475	360	250	219	177	148	69.1
1.88V		1345	1099	870	631	442	339	239	209	170	143	67.1
1.90V		1199	960	781	575	397	321	227	199	160	135	64.5
1.94V		1080	872	717	517	355	275	199	176	144	123	57.4

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

End Voltage	Time	5min	15min	30min	60min	2hour	3hour	5hour	6hour	8hour	10hour	24hour
1.60V		4250	3559	2834	2020	1303	965	638	544	426	348	157
1.65V		4042	3416	2680	1866	1195	906	615	527	410	339	154
1.70V		3886	3294	2614	1777	1161	874	601	517	401	329	151
1.75V		3765	3171	2525	1708	1120	842	587	505	386	324	149
1.80V		3661	3022	2435	1668	1099	812	570	490	376	319	147
1.83V		3460	2883	2297	1609	1054	792	558	475	369	313	145
1.85V		3329	2752	2166	1517	1010	769	543	464	384	307	141
1.88V		3143	2549	2014	1426	939	743	526	448	354	300	137
1.90V		2938	2388	1827	1307	876	713	508	434	340	285	132
1.94V		2656	2138	1637	1158	810	662	481	416	327	272	131

