

GEL Plus Batteries

The GEL Plus range of gel technology batteries offers outstanding performance including a 15+ years design life. The GEL Plus batteries are 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

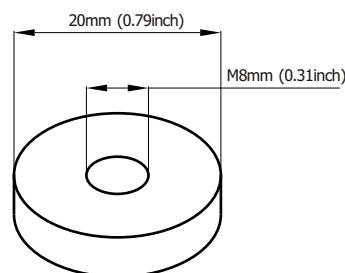
- Correspondence exchange and transmission system
- Mobile communication system
- Power plant and power transformer system
- Radio and broadcasting station
- Navigation and signaling system
- Emergency power system
- UPS
- Other spare, circulatory system

General Features

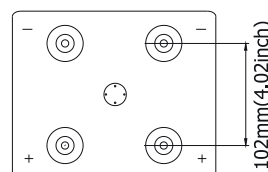
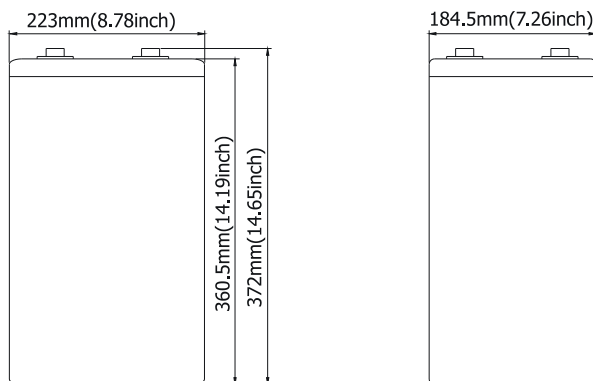
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.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

Construction

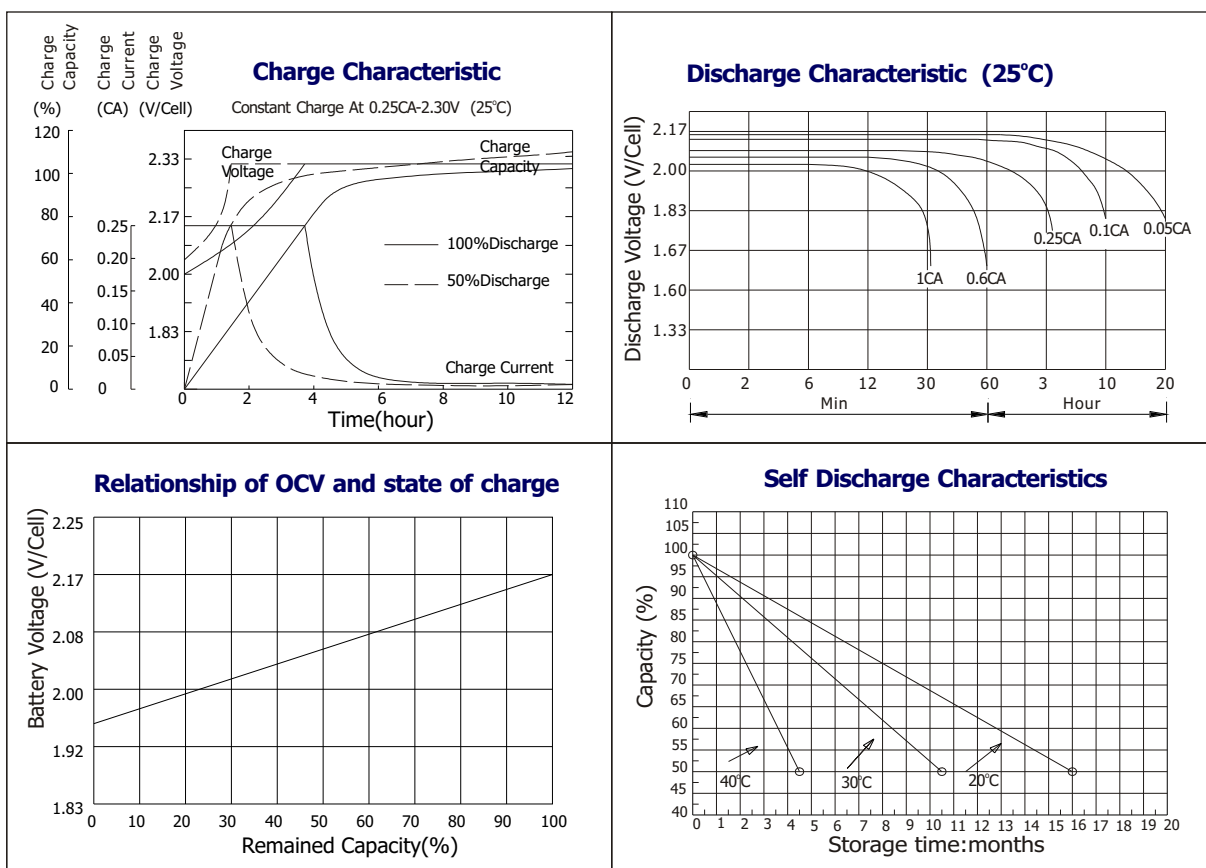
Component	Raw material	Sealant	Epoxy Resin
Positive	Lead dioxide	Safety valve	EPDR
Negative	Lead	Terminal	Copper
Container	ABS	Separator	Macromolecule polymer
Cover	ABS	Electrolyte	sulfuric acid thixotropic Gel



Terminal Dimensions



Battery Model	GELPlus2-600			
Designed Floating Life	15 Years			
Capacity(25°C)	20HR(31A,1.75V)	10HR(60A,1.75V)	5HR(108A,1.75V)	1HR(388.2A,1.75V)
	620AH	600AH	540AH	388.2AH
Dimensions	Length	Width	Height	Total Height
	223mm(8.78inch)	184.5mm(7.26inch)	360.5mm(14.19inch)	372mm(14.65inch)
Approx. Weight	37.5Kg (82.69 lbs)			
Internal Resistance	Full charged at 25°C: 0.00028 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: 150A		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	1000	837	620	392	231	170	115	99.2	79.1	65.7	29.6
1.65V	924	781	594	372	226	165	112	97.9	78.1	65.0	29.5
1.70V	864	732	547	355	217	161	111	96.6	76.6	64.0	29.3
1.75V	823	693	508	339	210	156	108	95.0	75.7	63.1	29.0
1.80V	792	653	475	317	201	151	106	92.7	74.3	61.7	28.5
1.83V	736	614	452	297	192	146	103	91.0	72.9	60.4	27.9
1.85V	701	579	424	286	181	143	102	89.7	72.1	60.0	27.6
1.88V	652	528	398	274	177	140	101	88.4	71.3	59.5	27.3
1.90V	603	490	364	254	170	134	98.2	86.4	69.4	58.0	27.0
1.94V	542	436	322	226	154	123	91.0	80.2	64.9	54.6	26.1

Constant power discharge ratings - watts at 25°C

Time End Voltage	5min	15min	30min	60min	2hour	3hour	5hour	6hour	8hour	10hour	24hour
1.60V	1700	1424	1134	808	521	386	255	218	170	139	62.7
1.65V	1617	1366	1072	747	478	362	246	211	164	136	61.5
1.70V	1554	1318	1045	711	464	350	241	207	160	132	60.3
1.75V	1506	1268	1010	683	448	337	235	202	154	130	59.7
1.80V	1464	1209	974	667	440	325	228	196	151	128	58.8
1.83V	1384	1153	919	644	422	317	223	190	148	125	57.9
1.85V	1332	1101	866	607	404	308	217	186	146	123	56.4
1.88V	1257	1020	806	570	375	297	210	179	142	120	54.9
1.90V	1175	955	731	523	351	285	203	173	136	114	52.9
1.94V	1062	855	655	463	324	265	193	166	131	109	52.3