

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

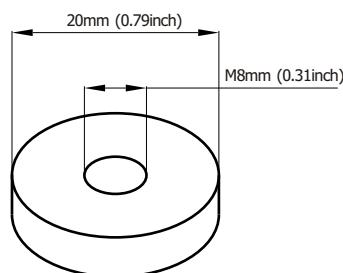
General Features

- 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.

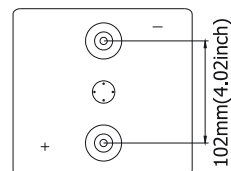
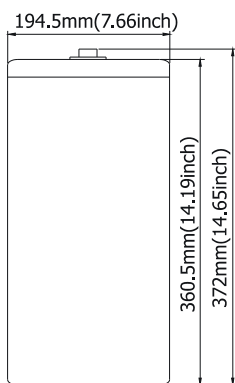
Construction

ComponentRaw material
PositiveLead dioxide
NegativeLead
ContainerABS
CoverABS

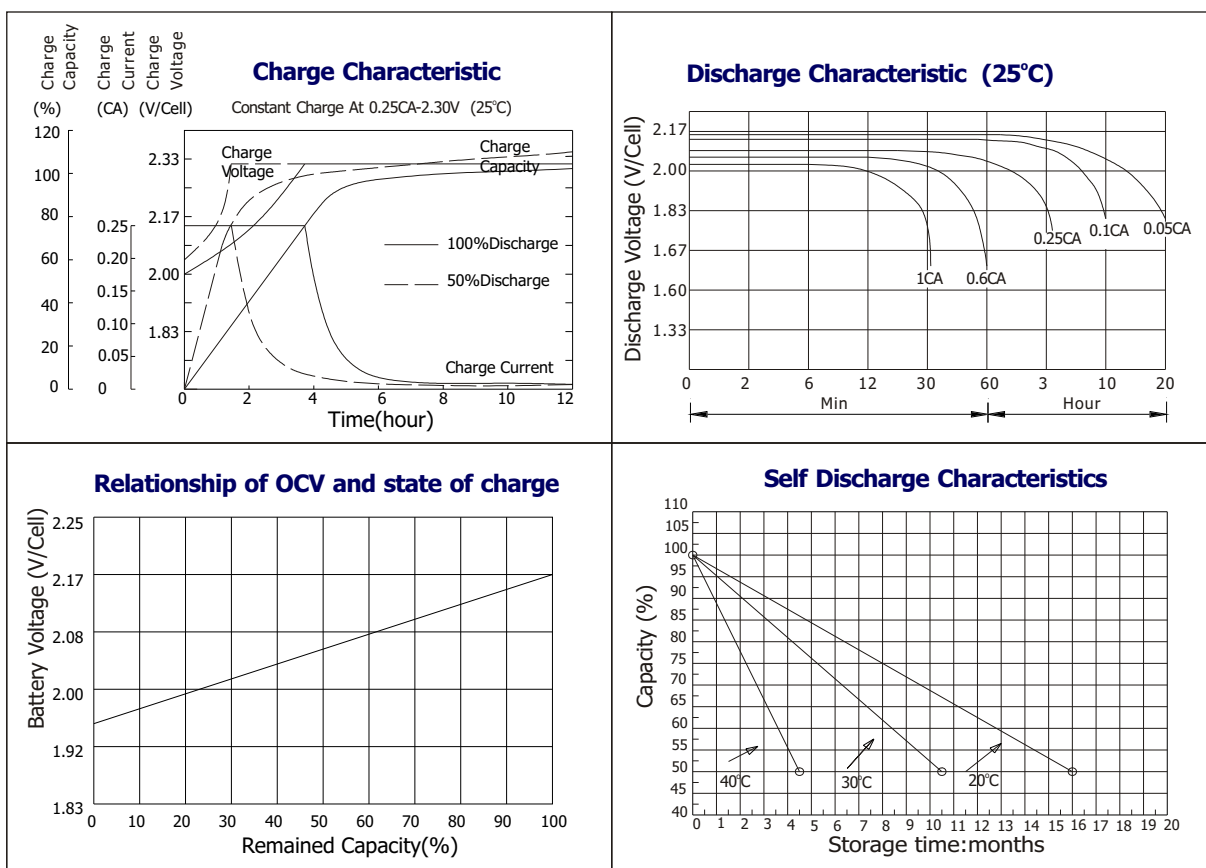
SealantEpoxy Resin
Safety valveEPDR
TerminalCopper
SeparatorMacromolecule polymer
Electrolytesulfuric acid thixotropic Gel



Terminal Dimensions



Battery Model	GELPlus2-500			
Designed Floating Life	15 Years			
Capacity(25°C)	20HR(25.8A,1.75V)	10HR(50A,1.75V)	5HR(90A,1.75V)	1HR(275A,1.75V)
	516AH	500AH	450AH	275AH
Dimensions	Length	Width	Height	Total Height
	194.5mm(7.66inch)	184.5mm(7.26inch)	360.5mm(14.19inch)	372mm(14.65inch)
Approx. Weight	31.3Kg (69.02 lbs)			
Internal Resistance	Full charged at 25°C: 0.00033 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: 125A		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	833	698	517	327	193	141	95.8	82.7	65.9	54.7	24.7
1.65V	770	651	495	310	188	138	93.5	81.6	65.0	54.2	24.6
1.70V	719	610	455	296	181	134	92.7	80.5	63.9	53.4	24.5
1.75V	686	578	423	282	175	130	90.1	79.2	63.1	52.6	24.2
1.80V	660	545	396	264	167	126	88.0	77.2	61.9	51.4	23.8
1.83V	614	511	377	248	160	122	85.9	75.8	60.8	50.3	23.3
1.85V	584	483	353	239	151	119	85.0	74.7	60.1	50.0	23.0
1.88V	543	440	332	229	148	117	84.2	73.7	59.4	49.6	22.8
1.90V	502	408	303	212	142	112	81.9	72.0	57.8	48.3	22.5
1.94V	452	364	268	188	128	103	75.8	66.8	54.1	45.5	21.8

Constant power discharge ratings - watts at 25°C

Time End Voltage	5min	15min	30min	60min	2hour	3hour	5hour	6hour	8hour	10hour	24hour
1.60V	1417	1186	945	673	434	322	213	185	142	116	52.2
1.65V	1347	1139	894	622	399	302	205	176	137	113	51.2
1.70V	1295	1098	871	592	387	291	201	172	134	110	50.2
1.75V	1255	1057	842	569	373	281	196	168	129	108	49.7
1.80V	1220	1007	812	556	366	271	190	163	125	106	49.0
1.83V	1153	961	766	536	352	264	186	158	123	104	48.3
1.85V	1110	917	722	506	337	256	181	155	121	102	47.0
1.88V	1048	850	671	475	313	248	175	149	118	99.8	45.8
1.90V	979	796	609	436	292	238	169	145	114	94.9	44.1
1.94V	885	713	546	386	270	221	160	139	109	90.8	43.6