

**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**

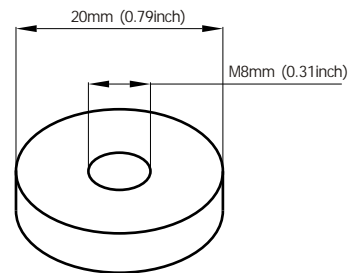
- Correspondence exchange and transmission system
- Mobile communication system
- Power plant and power transformer system
- Radio and broadcasting station
- Navigation and signaling system
- Emergency power system
- UPS
- Other spare, circulatory system

**General Features**

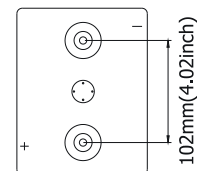
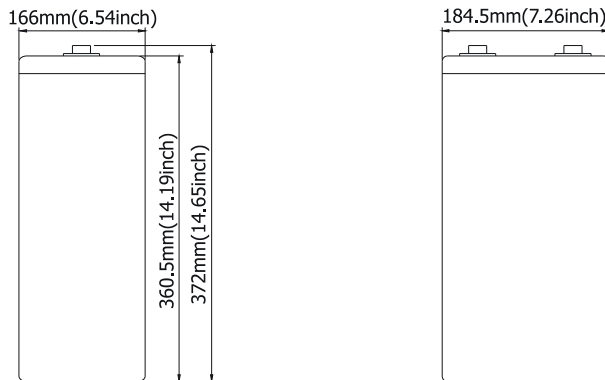
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.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

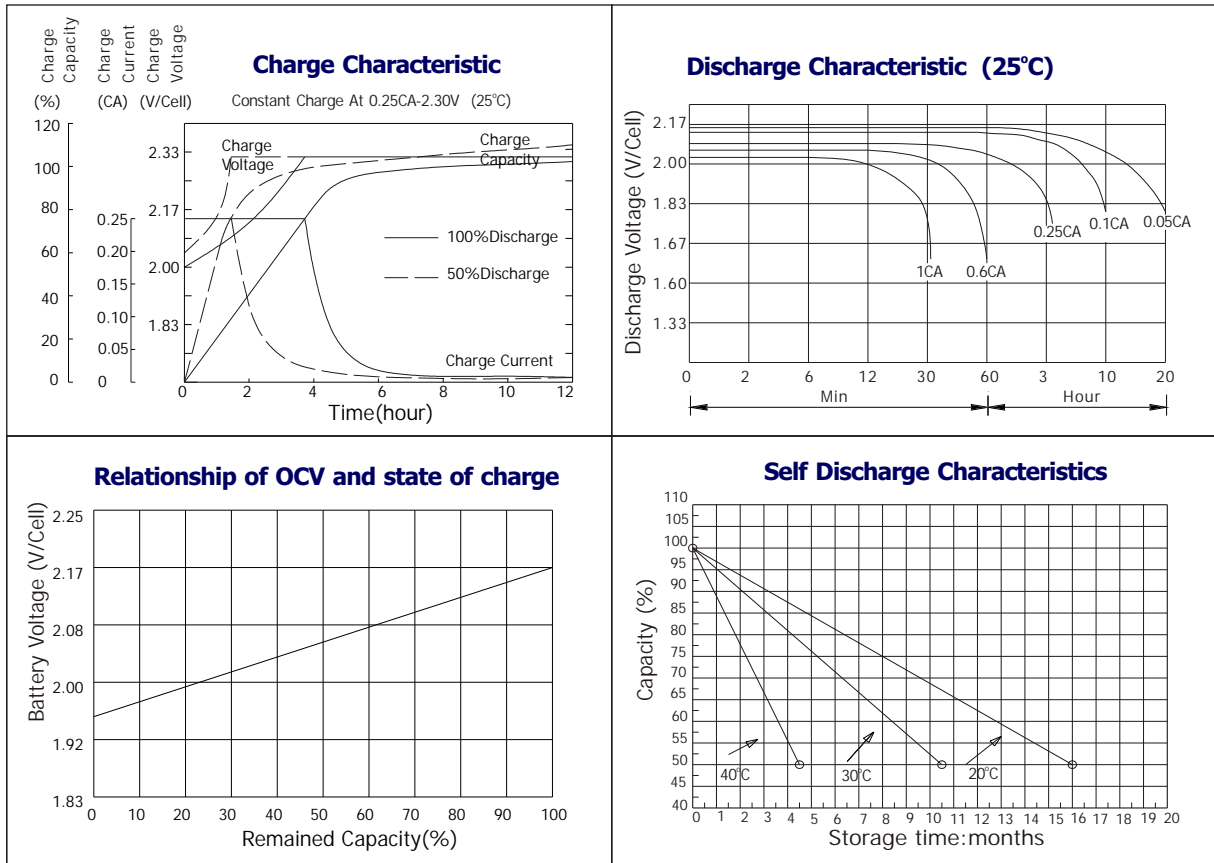


**Terminal Dimensions**



Battery Model	GELPlus2-400			
Designed Floating Life	15 Years			
Capacity(25°C)	20HR(20.65A,1.75V)	10HR(40A,1.75V)	5HR(72A,1.75V)	1HR(220A,1.75V)
	413AH	400AH	360AH	220AH
Dimensions	Length	Width	Height	Total Height
	166mm(6.54inch)	184.5mm(7.261inch)	360.5mm(14.19inch)	372mm(14.65inch)
Approx. Weight	26.5Kg (58.43 lbs)			
Internal Resistance	Full charged at 25°C: 0.00035 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: 100A		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
<b>1.60V</b>	667	558	413	261	154	113	76.7	66.1	52.7	43.8	19.7
<b>1.65V</b>	616	521	396	248	151	110	74.8	65.3	52.0	43.3	19.6
<b>1.70V</b>	576	488	364	237	145	107	74.1	64.4	51.1	42.7	19.6
<b>1.75V</b>	549	462	339	226	140	104	72.1	63.4	50.5	42.1	19.3
<b>1.80V</b>	528	436	317	212	134	101	70.4	61.8	49.5	41.1	19.0
<b>1.83V</b>	491	409	302	198	128	97.3	68.7	60.7	48.6	40.2	18.6
<b>1.85V</b>	467	386	283	191	121	95.4	68.0	59.8	48.1	40.0	18.4
<b>1.88V</b>	434	352	265	183	118	93.5	67.3	58.9	47.5	39.7	18.2
<b>1.90V</b>	402	327	242	170	113	89.5	65.5	57.6	46.3	38.6	18.0
<b>1.94V</b>	361	291	215	151	102	82.3	60.7	53.5	43.2	36.4	17.4

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

End Voltage \ Time	5min	15min	30min	60min	2hour	3hour	5hour	6hour	8hour	10hour	24hour
<b>1.60V</b>	1133	949	756	539	348	257	170	145	114	92.7	41.8
<b>1.65V</b>	1078	911	715	498	319	242	164	141	109	90.4	41.0
<b>1.70V</b>	1036	879	697	474	310	233	160	138	107	87.8	40.2
<b>1.75V</b>	1004	846	673	455	299	224	156	135	103	86.5	39.8
<b>1.80V</b>	976	806	649	445	293	217	152	131	110	85.1	39.2
<b>1.83V</b>	923	769	613	429	281	211	149	127	98.3	83.5	38.6
<b>1.85V</b>	888	734	578	405	269	205	145	124	97.0	81.8	37.6
<b>1.88V</b>	838	680	537	380	250	198	140	119	94.4	79.9	36.6
<b>1.90V</b>	783	637	487	349	234	190	135	116	90.8	75.9	35.2
<b>1.94V</b>	708	570	436	309	216	177	128	111	87.1	72.6	34.8

