

EverExceed[®]
power your applications

-Energy storage system
-Solar power system

GELLYTE RANGE | GEL VRLA



Gellyte Range VRLA

18 Ah to 300 Ah @ C20

The extremely powerful and reliable EverExceed's Gellyte Range VRLA batteries perfectly fulfills the requirements for many different applications including solar, Telecom, Home Medical Equipment (HME) / mobility, industrial and utility applications where frequent deep cycles are required and minimum maintenance is desirable. Our development team combines the market's demand with design optimization, precision component selection and state of the art manufacturing process to produce the most cost effective battery solution for today's applications.

Applicable operating temperature range:

-40°C (-40°F) to +70°C (+158°F)

Ideal operating temperature range:

+20°C (+68°F) to +32°C (+90°F)

Storage time from a fully charged condition:

12 months at 20°C / 68°F.

For each 9°C / 15°F rise, reduce the storage time by half.

Specifications

Voltage	6 & 12 volts nominal
Plate alloy	lead-Calcium-Tin alloy
Element, post	Silver plated Copper female insert
Container/cover	Reinforced ABS, UL94 V-0 on request
Specific	1.280g/cm ³
Electrolyte	Sulfuric acid thixotropic solid gel
Vent	Self sealing (2 PSI operation)

Applications

- ◆ Solar & Wind energy system
- ◆ Mobile communication system
- ◆ Emergency lighting system
- ◆ Radio and broadcasting station
- ◆ Cathodic protection systems
- ◆ Power plant and power transformer system



Innovative Features

- ◆ 12 years design life @ 25°C (77°F);
- ◆ Deep cycle battery designed, Electrolyte in solid gel form will not stratify GEL electrolyte with highly porous glass micro-fiber separator;
- ◆ Sulfuric acid thixotropic gel, gel powder from Europe leading supplier to ensure the unique performance of gel battery;
- ◆ The active material is manufactured from best purity lead (99.994%) to minimize the negative effects of impurities;
- ◆ Exceptional energy storage capacity combined with long life - BCI Classification;
- ◆ Thickness positive plate and optimized plate alloy to maximizing anticorrosion ability;
- ◆ Spill-proof and leak-proof;
- ◆ Up to 12 months shelf life due to low self-discharge rate (less than 3%/month at 25°C)
- ◆ Proprietary Fixed Orifice Plate Pasting technology applying active materials on both sides of the grid for consistent cell-to-cell performance, higher capacity and uniform grid protection;
- ◆ Flame-arresting one way pressure-relief vent for safe and long life;
- ◆ Increased durability and deep cycle ability for heavy duty applications;
- ◆ Fully tank formed grid Lead Calcium Tin plate ensures voltage matching between cells;
- ◆ Unique performance against high temperature.

Compliant Standards

- ◆ IEC 60896-21/22-2004
- ◆ IEC 61427-2005
- ◆ DIN 43539-T5
- ◆ YD/T 1360-2005
- ◆ BS 6290 PART 4
- ◆ UL 1989

Designed in Quality Manufacturing

Advanced Germany technology and the use of the most modern computer aided design and manufacturing techniques combine to make Everexceed's Gellyte Range Batteries the ideal power solution for your applications.

Each and every unit is capacity tested.

No Transport Restrictions

Surface transport: Classified as non-hazardous material as related to DOT-CFR Title 49 parts 171-189.

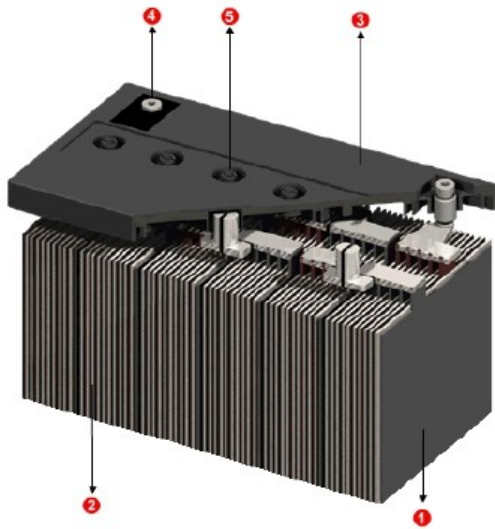
Marine transport: Classified as non-hazardous material as per IMDG amendment 27.

Air transport: Complies with IATA / ICAO, Special provision A67.

GEL BATTERY CONSTRUCTION - The positive and negative grids are cast from a calcium / tin lead alloy to reduce grid growth and corrosion. The active material is manufactured from high purity lead (99.994%) to minimize the negative effects of impurities.

Gel Separator is mat of random woven acid resistant glass fibers. "U wrapping" is employed to eliminate the risk of short circuits due to mossing and debris at the bottom of the cell.

The purpose of the separator is to maintain a constant distance between the positive and negative plates, thus removing the possibility of short circuits whilst allowing the active material to fully react with the electrolyte. The random weaving also results in an open structure, which offers minimal resistance to the flow of electrolyte during filling.



- ❶ **Plates:** Pb-Ca-Sn-Al lead alloy
- ❷ **Separator:** Highly porous glass micro-fibre separator, optimized for low internal resistance, for maximum absorption of the electrolyte and for electrical separation.
- ❸ **Standard Housing:** Reinforced ABS (UL 94HB) container and cover.
Optional Housing: Flame-retardant reinforced ABS container and cover compliant with UL94 V-0 with an Oxygen limiting Index of greater than 28%.
- ❹ **Terminals:** Silver plated Copper female insert for easy and safe assembly and maintenance free connection with excellent conductivity.
- ❺ **Valves:** Release gas in case of excess pressure and protects the cell against atmosphere.

GELLED ELECTROLYTE FILLING - Gelled electrolyte is filled into the cell by means of custom-built vacuum filling machines. To achieve reliable performance it is vitally important that the electrolyte achieves full penetration of the separators and plates therefore, vacuum cycling is utilized after the filling process. To ensure each cell has the correct amount of gel, the cells are first overfilled, the extra gel then removed. The VRLA Gel battery design and construction negates the need for electrolyte addition and the battery remains maintenance free throughout its design life.

SAFETY RELEASE VALVE - Those Gel batteries will operate above atmospheric pressure under normal operating conditions, however the maximum pressure is governed by the safety one-way release valve. Open action is activated by internal pressures in excess of approx. (24-28 Kpa), resealing at approx.(8-16Kpa).

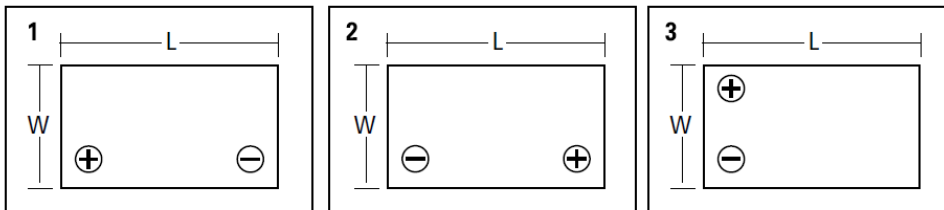
GAS RECOMBINATION - The gasses generated during normal operation of the battery are internally recombined. In fact more than 99% of the gas achieves recombination.

TERMINAL CONSTRUCTION - The contact quality between the copper insert female terminal and the lead post is of vital importance during short duration / high Amps discharge. Elevated terminal temperatures are the result of poor contact, eventually causing seal degradation and electrolyte leaks. EverExceed's tin plated copper terminal design and fusion welding plus epoxy sealing assembly technique for terminal casting ensures trouble free operation and high performance.

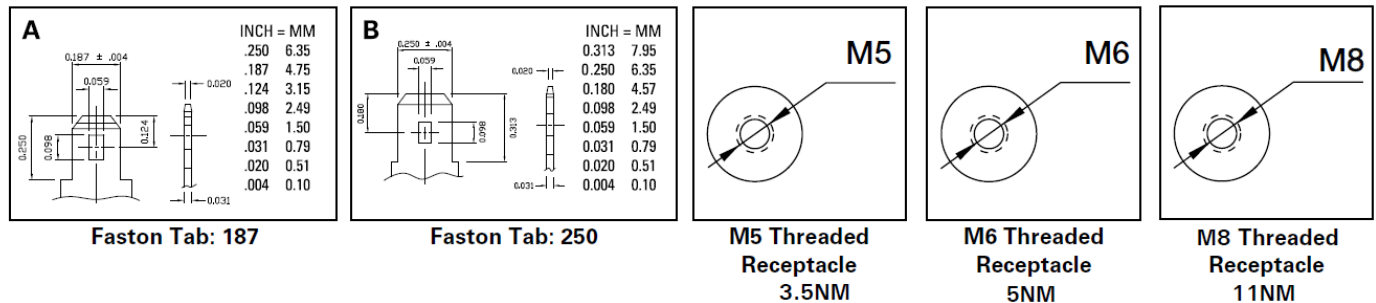
Gellyte Range Electrical Specifications & Dimensions

Battery Model	Nom. Voltage (V)	Capacity C20 1.75VPC	Capacity C100 1.75VPC	Short Circuit Amps	Internal Re-sistance Milli-	Terminal Type	Battery Weight (kg/lb)		Outline Dimensions (mm/inch)					
									Length		Width		Height	
GL-1228	12	28	30	1219	11.1	F-M5	8.5	18.7	166	6.54	175	6.89	126	4.96
GL-1235	12	35	38	1530	9.6	F-M6	10.8	23.8	195	7.68	130	5.12	154	6.06
GL-1250	12	50	55	1785	7.2	F-M6	14.5	31.9	197	7.76	165	6.5	172	6.78
GL-1260	12	60	66	1900	6.6	F-M6	19.0	42.8	350	13.8	167	6.58	178	7.01
GL-1270	12	70	77	2000	6.0	F-M6	19.8	43.6	350	13.8	167	6.58	178	7.01
GL-1280	12	80	88	2100	5.6	F-M6	22.3	49.1	259	10.2	168	6.62	215	8.5
GL-12100	12	100	110	2650	4.3	F-M6	28.9	63.6	332	13.1	174	6.86	220	8.67
GL-12120	12	120	132	3000	3.5	F-M8	31.7	69.8	332	13.1	174	6.86	220	8.67
GL-12135	12	135	148	3300	3.1	F-M8	36.0	79.2	408	16.1	175	6.90	235	9.25
GL-12150	12	150	165	3750	2.8	F-M8	39.8	87.6	340	13.4	173	6.81	285	11.2
GL-12180	12	180	198	4700	2.7	F-M8	51.8	114	530	20.9	210	8.27	220	8.67
GL-12200	12	200	220	5400	2.6	F-M8	55.0	121	530	20.9	210	8.27	220	8.67
GL-12230	12	230	253	5600	2.5	F-M8	64.0	141	520	20.5	238	9.37	220	8.67
GL-12250	12	250	275	5900	2.3	F-M8	68.5	151	520	20.5	269	10.6	225	8.86
GL-12280	12	280	308	6100	2.2	F-M8	73.0	161	520	20.5	269	10.6	225	8.86
GL-12300	12	300	330	6300	2.0	F-M8	77.0	169	520	20.5	269	10.6	225	8.86

Layout



Terminal



Gellyte Range Discharge Ampere Hours Data @ 25°C (77°F)

Battery Model	End VPC	Discharge Data Amps @ 25°C						Discharge Data Ampere Hours @ 25°C										
		Discharge Time In Minutes						Discharge Time In Hours										
		5	10	15	30	45	60	1.5	2	3	4	5	8	10	12	20	24	100
GL-1228	1.85	64.0	48.0	38.0	25.8	18.7	15.3	17.0	17.8	19.2	19.8	20.4	22.2	22.9	23.4	26.5	27.0	29.6
	1.80	67.2	50.4	39.9	27.1	19.6	16.1	17.5	18.7	20.0	21.0	21.6	23.6	24.5	25.0	27.6	28.2	30.2
	1.75	79.3	57.4	42.9	27.4	20.0	16.5	18.2	19.1	20.7	21.6	22.2	24.2	25.2	25.7	28.0	28.6	30.8
	1.67	84.0	61.6	45.4	27.7	20.6	16.9	18.4	19.3	20.9	21.8	22.4	24.4	25.4	25.9	28.3	28.8	31.1
GL-1235	1.85	80.0	60.0	47.5	32.2	23.4	19.2	21.3	22.3	24.0	24.8	25.5	27.8	28.6	29.3	33.1	33.7	37.0
	1.80	84.0	63.0	49.9	33.8	24.6	20.1	21.9	23.3	25.0	26.2	27.0	29.5	30.6	31.2	34.5	35.2	37.7
	1.75	99.2	71.7	53.7	34.2	25.0	20.6	22.8	23.9	25.9	26.9	27.7	30.2	31.4	32.1	35.0	35.7	38.5
	1.67	105.0	77.0	56.8	34.6	25.7	21.1	23.0	24.2	26.2	27.2	28.0	30.5	31.8	32.4	35.3	36.1	38.9
GL-1250	1.85	114	85.7	67.9	46.0	33.4	27.4	30.4	31.8	34.3	35.4	36.4	39.7	40.8	41.8	47.2	48.2	52.8
	1.80	120	90.0	71.2	48.3	35.1	28.7	31.2	33.3	35.7	37.4	38.6	42.1	43.7	44.6	49.3	50.3	53.9
	1.75	142	102	76.7	48.9	35.7	29.4	32.6	34.2	37.0	38.5	39.6	43.2	44.9	45.8	50.0	51.0	55.0
	1.67	150	110	81.1	49.4	36.7	30.2	32.9	34.5	37.4	38.9	40.0	43.6	45.4	46.3	50.5	51.5	55.5
GL-1260	1.85	137	103	81.4	55.2	40.1	32.9	36.5	38.2	41.2	42.5	43.7	47.6	49	50.2	56.7	57.8	63.4
	1.80	144	108	85.5	58.0	42.1	34.5	37.5	40.0	42.8	44.9	46.3	50.5	52.5	53.5	59.2	60.4	64.7
	1.75	170	123	92	58.7	42.8	35.3	39.1	41.0	44.4	46.2	47.5	51.8	53.9	55.0	60.0	61.2	66.0
	1.67	180	132	97.3	59.3	44.1	36.2	39.5	41.4	44.8	46.7	48.0	52.3	54.4	55.6	60.6	61.8	66.7
GL-1270	1.85	160	120	95.0	64.4	46.8	38.3	42.6	44.6	48.1	49.6	51.0	55.5	57.2	58.6	66.1	67.4	74.0
	1.80	168	126	99.7	67.7	49.1	40.2	43.7	46.7	49.9	52.4	54.0	58.9	61.2	62.4	69.1	70.5	75.5
	1.75	198	143	107	68.5	49.9	41.2	45.6	47.8	51.8	53.9	55.4	60.4	62.9	64.2	70.0	71.4	77.0
	1.67	210	154	114	69.2	51.4	42.2	46.1	48.3	52.3	54.4	56.0	61.0	63.5	64.8	70.7	72.1	77.8
GL-1280	1.85	183	137	109	73.6	53.5	43.8	48.7	50.9	54.9	56.7	58.3	63.5	65.3	66.9	75.6	77.1	84.5
	1.80	192	144	114	77.3	56.1	46.0	50.0	53.3	57.1	59.9	61.7	67.3	70.0	71.3	78.9	80.5	86.3
	1.75	227	164	123	78.3	57.1	47.1	52.1	54.7	59.2	61.6	63.3	69.1	71.9	73.3	80.0	81.6	88.0
	1.67	240	176	130	79.1	58.8	48.3	52.7	55.2	59.8	62.2	64.0	69.8	72.6	74.1	80.8	82.4	88.9
GL-12100	1.85	229	171	136	92.1	66.8	54.8	60.8	63.7	68.7	70.8	72.8	79.3	81.7	83.7	94.5	96.3	106
	1.80	240	180	142	96.7	70.2	57.5	62.5	66.7	71.3	74.8	77.2	84.2	87.5	89.2	98.7	101	108
	1.75	283	205	153	97.8	71.3	58.8	65.2	68.3	74.0	77.0	79.2	86.3	89.8	91.7	100	102	110
	1.67	300	220	162	98.8	73.5	60.3	65.8	69.0	74.7	77.8	80.0	87.2	90.7	92.6	101	103	111
GL-12120	1.85	274	206	163	110	80.2	65.7	73.0	76.4	82.4	85.0	87.4	95.2	98.0	100	113	116	127
	1.80	288	216	171	116	84.2	69.0	75.0	80.0	85.6	89.8	92.6	101	105	107	118	121	129
	1.75	340	246	184	117	85.6	70.6	78.2	82.0	88.8	92.4	95.0	104	108	110	120	122	132
	1.67	360	264	195	119	88.2	72.4	79.0	82.8	89.7	93.3	95.9	105	109	111	121	124	133
GL-12135	1.85	309	231	183	124	90.2	73.9	82.1	85.9	92.7	95.6	98.3	107	110	113	128	130	143
	1.80	324	243	192	130	94.7	77.6	84.4	90.0	96.3	101	104	114	118	120	133	136	146
	1.75	382	277	207	132	96.3	79.4	88.0	92.2	100	104	107	117	121	124	135	138	148
	1.67	405	297	219	133	99.2	81.4	88.9	93.2	101	105	108	118	122	125	136	139	150

Actual Battery Discharge Data may be +/-5% of figures shown above.

Gellyte Range Discharge Ampere Hours Data @ 25°C (77°F)

Battery Model	End VPC	Discharge Data Amps @ 25°C						Discharge Data Ampere Hours @ 25°C										
		Discharge Time In Minutes						Discharge Time In Hours										
		5	10	15	30	45	60	1.5	2	3	4	5	8	10	12	20	24	100
GL-12150	1.85	343	257	204	138	100	82.1	91.2	95.5	103	106	109	119	122	125	142	144	158
	1.80	360	270	214	145	105	86.2	93.7	100	107	112	116	126	131	134	148	151	162
	1.75	425	307	230	147	107	88.2	97.7	102	111	115	119	129	135	137	150	153	165
	1.67	450	330	243	148	110	90.5	98.7	104	112	117	120	131	136	139	151	155	167
GL-12180	1.85	411	309	244	166	120	99.0	109	115	124	127	131	143	147	151	170	173	190
	1.80	432	324	256	174	126	103	112	120	128	135	139	151	157	160	178	181	194
	1.75	510	369	276	176	128	106	117	123	133	139	142	155	162	165	180	184	198
	1.67	540	396	292	178	132	109	118	124	135	140	144	157	163	167	182	185	200
GL-12200	1.85	457	343	271	184	134	110	122	127	137	142	146	159	163	167	189	193	211
	1.80	480	360	285	193	140	115	125	133	143	150	154	168	175	178	197	201	216
	1.75	567	410	307	196	143	118	130	137	148	154	158	173	180	183	200	204	220
	1.67	600	440	324	198	147	121	132	138	149	156	160	174	181	185	202	206	222
GL-12230	1.85	526	394	312	212	154	126	140	146	158	163	168	182	188	192	217	222	243
	1.80	552	414	328	222	161	132	144	153	164	172	177	194	201	205	227	232	248
	1.75	652	471	353	225	164	135	150	157	170	177	182	199	207	211	230	235	253
	1.67	690	506	373	227	169	139	151	159	172	179	184	201	209	213	232	237	256
GL-12250	1.85	571	429	339	230	167	137	152	159	172	177	182	198	204	209	236	241	264
	1.80	600	450	356	242	175	144	156	167	178	187	193	210	219	223	247	252	270
	1.75	708	512	383	245	178	147	163	171	185	192	198	216	225	229	250	255	275
	1.67	750	550	405	247	184	151	165	173	187	194	200	218	227	231	252	258	278
GL-12280	1.85	640	480	380	258	187	153	170	178	192	198	204	222	229	234	265	270	296
	1.80	672	504	399	271	196	161	175	187	200	210	216	236	245	250	276	282	302
	1.75	793	574	429	274	200	165	182	191	207	216	222	242	252	257	280	286	308
	1.67	840	616	454	277	206	169	184	193	209	218	224	244	254	259	283	288	311
GL-12300	1.85	686	514	407	276	200	164	182	191	206	212	218	238	245	251	283	289	317
	1.80	720	540	427	290	210	172	187	200	214	224	231	252	262	267	296	302	323
	1.75	850	615	460	293	214	176	195	205	222	231	237	259	269	275	300	306	330
	1.67	900	660	486	296	220	181	197	207	224	233	240	262	272	278	303	309	333

Actual Battery Discharge Data may be +/-5% of figures shown above.

Gellyte Range Discharge Amps Data @ 25°C (77°F)

Battery Model	End VPC	Discharge Data Amps @ 25°C						Discharge Data Amps @ 25°C										
		Discharge Time In Minutes						Discharge Time In Hours										
		5	10	15	30	45	60	1.5	2	3	4	5	8	10	12	20	24	100
GL-1228	1.85	63.9	48.1	38.0	25.8	18.7	15.4	11.4	8.91	6.39	4.95	4.08	2.78	2.29	1.95	1.32	1.12	0.29
	1.80	67.2	50.4	39.9	27.1	19.6	16.1	11.7	9.33	6.67	5.23	4.32	2.94	2.45	2.08	1.38	1.18	0.30
	1.75	79.3	57.4	42.9	27.4	20.0	16.5	12.2	9.57	6.91	5.37	4.43	3.02	2.52	2.14	1.40	1.19	0.31
	1.67	84.0	61.6	45.4	27.7	20.6	16.9	12.3	9.66	6.95	5.41	4.48	3.05	2.54	2.17	1.41	1.20	0.31
GL-1235	1.85	79.9	60.1	47.5	32.2	23.4	19.2	14.2	11.1	7.99	6.18	5.10	3.47	2.86	2.44	1.65	1.41	0.37
	1.80	84.0	63.0	49.9	33.8	24.6	20.1	14.6	11.7	8.34	6.53	5.40	3.68	3.06	2.60	1.73	1.47	0.38
	1.75	99.2	71.7	53.7	34.2	25.0	20.6	15.2	12.0	8.63	6.71	5.54	3.77	3.14	2.68	1.75	1.49	0.38
	1.67	105	77.0	56.8	34.6	25.7	21.1	15.4	12.1	8.69	6.77	5.60	3.81	3.17	2.71	1.77	1.50	0.39
GL-1250	1.85	114	85.8	67.8	46.0	33.4	27.4	20.3	15.9	11.4	8.83	7.28	4.96	4.08	3.48	2.36	2.01	0.52
	1.80	120	90.0	71.2	48.3	35.1	28.7	20.8	16.7	11.9	9.33	7.71	5.26	4.37	3.72	2.47	2.10	0.54
	1.75	142	102	76.7	48.9	35.7	29.4	21.7	17.1	12.3	9.58	7.92	5.39	4.49	3.82	2.50	2.12	0.55
	1.67	150	110	81.1	49.4	36.7	30.2	22.0	17.2	12.4	9.67	8.00	5.44	4.53	3.87	2.52	2.15	0.56
GL-1260	1.85	137	103	81.4	55.2	40.1	32.9	24.4	19.1	13.7	10.6	8.74	5.95	4.9	4.18	2.83	2.41	0.63
	1.80	144	108	85.5	58.0	42.1	34.5	25.0	20.0	14.3	11.2	9.25	6.31	5.25	4.46	2.96	2.52	0.65
	1.75	170	123	92.0	58.7	42.8	35.3	26.1	20.5	14.8	11.5	9.50	6.47	5.39	4.59	3.00	2.55	0.66
	1.67	180	132	97.3	59.3	44.1	36.2	26.4	20.7	14.9	11.6	9.60	6.53	5.44	4.64	3.03	2.58	0.67
GL-1270	1.85	160	120	95.0	64.4	46.8	38.3	28.5	22.3	16.0	12.4	10.2	6.94	5.72	4.88	3.30	2.81	0.73
	1.80	168	126	99.7	67.7	49.1	40.2	29.2	23.3	16.7	13.1	10.8	7.36	6.12	5.20	3.45	2.94	0.76
	1.75	198	143	107	68.5	49.9	41.2	30.4	23.9	17.3	13.4	11.1	7.55	6.29	5.35	3.50	2.97	0.77
	1.67	210	154	114	69.2	51.4	42.2	30.8	24.2	17.4	13.6	11.2	7.62	6.35	5.41	3.53	3.00	0.78
GL-1280	1.85	183	137	109	73.6	53.5	43.8	32.5	25.5	18.3	14.1	11.7	7.93	6.53	5.57	3.77	3.21	0.84
	1.80	192	144	114	77.3	56.1	46.0	33.3	26.7	19.1	14.9	12.3	8.41	7.00	5.95	3.95	3.36	0.87
	1.75	227	164	123	78.3	57.1	47.1	34.8	27.3	19.7	15.3	12.7	8.63	7.19	6.12	4.00	3.40	0.88
	1.67	240	176	130	79.1	58.8	48.3	35.1	27.6	19.9	15.5	12.8	8.71	7.26	6.18	4.04	3.43	0.89
GL-12100	1.85	229	171	136	92.1	66.8	54.8	40.7	31.8	22.8	17.7	14.6	9.9	8.17	6.97	4.72	4.02	1.05
	1.80	240	180	142	96.7	70.2	57.5	41.7	33.3	23.8	18.7	15.4	10.5	8.75	7.43	4.93	4.20	1.08
	1.75	283	205	153	97.8	71.3	58.8	43.5	34.2	24.7	19.2	15.8	10.8	8.98	7.65	5.00	4.25	1.10
	1.67	300	220	162	98.8	73.5	60.3	43.9	34.5	24.9	19.4	16.0	10.9	9.07	7.73	5.05	4.29	1.11
GL-12120	1.85	274	206	163	110	80.2	65.7	48.8	38.2	27.4	21.2	17.5	11.9	9.80	8.36	5.66	4.82	1.26
	1.80	288	216	171	116	84.2	69.0	50.0	40.0	28.6	22.4	18.5	12.6	10.5	8.92	5.92	5.04	1.30
	1.75	340	246	184	117	85.6	70.6	52.2	41.0	29.6	23.0	19.0	12.9	10.8	9.18	6.00	5.10	1.32
	1.67	360	264	195	119	88.2	72.4	52.7	41.4	29.9	23.2	19.2	13.1	10.9	9.27	6.06	5.15	1.33
GL-12135	1.85	309	231	183	124	90.2	73.9	54.9	43.0	30.8	23.8	19.7	13.4	11.0	9.40	6.37	5.42	1.42
	1.80	324	243	192	130	94.7	77.6	56.2	45.0	32.2	25.2	20.8	14.2	11.8	10.0	6.66	5.67	1.46
	1.75	382	277	207	132	96.3	79.4	58.7	46.1	33.3	25.9	21.4	14.6	12.1	10.3	6.75	5.74	1.48
	1.67	405	297	219	133	99.2	81.4	59.3	46.6	33.6	26.1	21.6	14.7	12.2	10.4	6.82	5.79	1.50

Actual Battery Discharge Data may be +/-5% of figures shown above.

Gellyte Range Discharge Amps Data @ 25°C (77°F)

Battery Model	End VPC	Discharge Data Amps @ 25°C						Discharge Data Amps @ 25°C										
		Discharge Time In Minutes						Discharge Time In Hours										
		5	10	15	30	45	60	1.5	2	3	4	5	8	10	12	20	24	100
GL-12150	1.85	343	257	204	138	100	82.1	61.0	47.7	34.2	26.5	21.8	14.9	12.2	10.4	7.07	6.02	1.57
	1.80	360	270	214	145	105	86.2	62.5	50.0	35.7	28.0	23.1	15.8	13.1	11.1	7.40	6.30	1.62
	1.75	425	307	230	147	107	88.2	65.2	51.2	37.0	28.7	23.7	16.2	13.5	11.5	7.50	6.37	1.65
	1.67	450	330	243	148	110	90.5	65.9	51.8	37.4	29.0	24.0	16.3	13.6	11.6	7.57	6.44	1.67
GL-12180	1.85	411	309	244	166	120	98.6	73.2	57.3	41.1	31.8	26.2	17.9	14.7	12.5	8.49	7.23	1.89
	1.80	432	324	256	174	126	103	75.0	60.0	42.9	33.6	27.7	18.9	15.7	13.4	8.88	7.56	1.95
	1.75	510	369	276	176	128	106	78.3	61.5	44.4	34.5	28.5	19.4	16.2	13.8	9.00	7.65	1.98
	1.67	540	396	292	178	132	109	79.1	62.1	44.8	34.8	28.8	19.6	16.3	13.9	9.09	7.73	2.00
GL-12200	1.85	457	343	271	184	134	110	81.3	63.7	45.7	35.3	29.1	19.8	16.3	13.9	9.43	8.03	2.10
	1.80	480	360	285	193	140	115	83.3	66.7	47.7	37.3	30.8	21.0	17.5	14.9	9.87	8.40	2.17
	1.75	567	410	307	196	143	118	87.0	68.3	49.3	38.3	31.7	21.6	18.0	15.3	10.0	8.50	2.20
	1.67	600	440	324	198	147	121	87.9	69.0	49.8	38.7	32.0	21.8	18.1	15.5	10.1	8.58	2.22
GL-12230	1.85	526	394	312	212	154	126	93.5	73.2	52.5	40.6	33.5	22.8	18.8	16.0	10.8	9.24	2.41
	1.80	552	414	328	222	161	132	95.8	76.7	54.8	42.9	35.5	24.2	20.1	17.1	11.3	9.66	2.49
	1.75	652	471	353	225	164	135	100	78.6	56.7	44.1	36.4	24.8	20.7	17.6	11.5	9.77	2.53
	1.67	690	506	373	227	169	139	101	79.4	57.3	44.5	36.8	25.0	20.9	17.8	11.6	9.87	2.55
GL-12250	1.85	571	429	339	230	167	137	102	79.6	57.1	44.2	36.4	24.8	20.4	17.4	11.8	10.0	2.62
	1.80	600	450	356	242	175	144	104	83.3	59.6	46.7	38.5	26.3	21.9	18.6	12.3	10.5	2.71
	1.75	708	512	383	245	178	147	109	85.4	61.7	47.9	39.6	27.0	22.5	19.1	12.5	10.6	2.75
	1.67	750	550	405	247	184	151	110	86.3	62.3	48.4	40.0	27.2	22.7	19.3	12.6	10.7	2.78
GL-12280	1.85	640	480	380	258	187	153	114	89.1	63.9	49.5	40.8	27.8	22.9	19.5	13.2	11.2	2.94
	1.80	672	504	399	271	196	161	117	93.3	66.7	52.3	43.2	29.4	24.5	20.8	13.8	11.8	3.03
	1.75	793	574	429	274	200	165	122	95.7	69.1	53.7	44.3	30.2	25.1	21.4	14.0	11.9	3.08
	1.67	840	616	454	277	206	169	123	96.6	69.7	54.2	44.8	30.5	25.4	21.6	14.1	12.0	3.11
GL-12300	1.85	686	514	407	276	200	164	122	95.5	68.5	53.0	43.7	29.7	24.5	20.9	14.1	12.0	3.15
	1.80	720	540	427	290	210	172	125	100	71.5	56.0	46.2	31.5	26.2	22.3	14.8	12.6	3.25
	1.75	850	615	460	293	214	176	130	102	74.0	57.5	47.5	32.3	26.9	22.9	15.0	12.7	3.30
	1.67	900	660	486	296	220	181	132	104	74.7	58.1	48.0	32.7	27.2	23.2	15.1	12.9	3.33

Actual Battery Discharge Data may be +/-5% of figures shown above.

Gellyte Range Discharge Watts Per Cell @ 25°C (77°F)

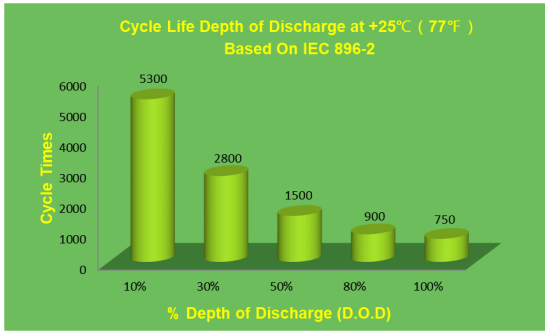
Battery Model	End VPC	Discharge Data WPC @ 25°C						Discharge Data Watts Per Cell @ 25°C											
		Discharge Time In Minutes						Discharge Time In Hours											
		5	10	15	30	45	60	1.5	2	3	4	5	8	10	12	20	24	100	
GL-1228	1.85	110	88.7	70.5	45.3	34.8	28.4	21.0	17.0	12.2	9.71	8.07	5.51	4.56	3.89	2.55	2.14	0.59	
	1.80	116	92.9	74.2	47.6	36.5	29.8	22.4	17.9	12.9	10.2	8.49	5.83	4.85	4.13	2.72	2.31	0.63	
	1.75	126	98.5	77.9	48.5	37.2	31.0	23.3	18.4	13.1	10.4	8.59	5.88	4.90	4.17	2.77	2.34	0.63	
	1.67	137	109	81.7	50.4	38.6	31.7	23.6	18.6	13.3	10.5	8.68	5.93	4.95	4.21	2.80	2.36	0.64	
GL-1235	1.85	138	111	88.1	56.6	43.5	35.5	26.3	21.2	15.3	12.1	10.1	6.88	5.70	4.86	3.19	2.68	0.73	
	1.80	145	116	92.7	59.5	45.6	37.2	28.0	22.3	16.1	12.7	10.6	7.29	6.07	5.17	3.39	2.88	0.78	
	1.75	158	123	97.4	60.7	46.5	38.8	29.2	23.0	16.4	12.9	10.7	7.35	6.12	5.21	3.46	2.92	0.79	
	1.67	171	136	102	63.0	48.2	39.7	29.5	23.3	16.6	13.1	10.8	7.41	6.18	5.27	3.49	2.95	0.80	
GL-1250	1.85	197	158	126	80.9	62.1	50.7	37.6	30.3	21.8	17.3	14.4	9.8	8.14	6.95	4.56	3.82	1.05	
	1.80	207	166	132	85.0	65.2	53.2	40.0	31.9	23.0	18.2	15.2	10.4	8.67	7.38	4.85	4.12	1.12	
	1.75	226	176	139	86.7	66.4	55.4	41.7	32.9	23.4	18.5	15.3	10.5	8.75	7.45	4.94	4.17	1.13	
	1.67	244	194	146	90.0	68.9	56.7	42.1	33.2	23.7	18.7	15.5	10.6	8.83	7.52	4.99	4.22	1.14	
GL-1260	1.85	236	190	151	97.1	74.5	60.8	45.1	36.4	26.2	20.8	17.3	11.8	9.77	8.34	5.47	4.59	1.26	
	1.80	248	199	159	102	78.2	63.8	48.0	38.3	27.6	21.8	18.2	12.5	10.4	8.86	5.82	4.94	1.34	
	1.75	271	211	167	104	79.7	66.5	50.0	39.5	28.1	22.2	18.4	12.6	10.5	8.94	5.93	5.01	1.36	
	1.67	293	233	175	108	82.7	68.0	50.5	39.9	28.4	22.4	18.6	12.7	10.6	9.03	5.99	5.06	1.37	
GL-1270	1.85	276	221	177	113	86.9	70.9	52.6	42.5	30.6	24.3	20.2	13.8	11.4	9.73	6.38	5.35	1.47	
	1.80	289	232	185	119	91.2	74.4	56.0	44.7	32.2	25.4	21.2	14.6	12.1	10.3	6.79	5.76	1.56	
	1.75	316	246	195	121	93.0	77.6	58.3	46.1	32.8	25.9	21.5	14.7	12.2	10.4	6.92	5.84	1.59	
	1.67	342	272	204	126	96.5	79.3	58.9	46.5	33.1	26.2	21.7	14.8	12.4	10.5	6.99	5.90	1.60	
GL-1280	1.85	315	253	202	130	99.3	81.0	60.1	48.5	34.9	27.7	23.1	15.7	13.0	11.1	7.29	6.12	1.68	
	1.80	331	265	212	136	104	85.1	64.0	51.1	36.8	29.1	24.3	16.7	13.9	11.8	7.76	6.59	1.79	
	1.75	361	281	223	139	106	88.7	66.7	52.7	37.5	29.6	24.5	16.8	14.0	11.9	7.91	6.68	1.81	
	1.67	391	311	233	144	110	90.7	67.3	53.2	37.8	29.9	24.8	17.0	14.1	12.0	7.99	6.75	1.83	
GL-12100	1.85	394	316	252	162	124	101	75.2	60.7	43.7	34.7	28.8	19.7	16.3	13.9	9.12	7.65	2.10	
	1.80	413	332	265	170	130	106	80.0	63.8	46.0	36.3	30.3	20.8	17.3	14.8	9.70	8.23	2.23	
	1.75	452	352	278	173	133	111	83.3	65.8	46.8	37.0	30.7	21.0	17.5	14.9	9.88	8.35	2.27	
	1.67	488	388	292	180	138	113	84.2	66.5	47.3	37.4	31.0	21.2	17.7	15.0	10.0	8.43	2.29	
GL-12120	1.85	472	379	303	194	149	122	90.2	72.8	52.4	41.6	34.6	23.6	19.5	16.7	10.9	9.18	2.52	
	1.80	496	398	318	204	156	128	96.0	76.6	55.2	43.6	36.4	25.0	20.8	17.7	11.6	9.88	2.68	
	1.75	542	422	334	208	159	133	100	79.0	56.2	44.4	36.8	25.2	21.0	17.9	11.9	10.0	2.72	
	1.67	586	466	350	216	165	136	101	79.8	56.8	44.8	37.2	25.5	21.2	18.1	12.0	10.1	2.75	
GL-12135	1.85	531	426	341	219	168	137	101	81.9	58.9	46.8	38.9	26.5	22.0	18.8	12.3	10.3	2.83	
	1.80	558	448	358	229	176	144	108	86.2	62.1	49.0	40.9	28.1	23.4	19.9	13.1	11.1	3.01	
	1.75	610	475	376	234	179	150	112	88.9	63.2	49.9	41.4	28.3	23.6	20.1	13.3	11.3	3.06	
	1.67	659	524	394	243	186	153	114	89.8	63.9	50.4	41.8	28.6	23.9	20.3	13.5	11.4	3.09	

Actual Battery Discharge Data may be +/-5% of figures shown above.

Gellyte Range Discharge Watts Per Cell @ 25°C (77°F)

Battery Model	End VPC	Discharge Data WPC @ 25°C						Discharge Data Watts Per Cell @ 25°C										
		Discharge Time In Minutes						Discharge Time In Hours										
		5	10	15	30	45	60	1.5	2	3	4	5	8	10	12	20	24	100
GL-12150	1.85	590	474	379	243	186	152	113	91.0	65.5	52.0	43.2	29.5	24.4	20.8	13.7	11.5	3.15
	1.80	620	497	397	255	195	159	120	95.7	69.0	54.5	45.5	31.2	26.0	22.1	14.5	12.3	3.35
	1.75	677	527	417	260	199	166	125	98.7	70.2	55.5	46.0	31.5	26.2	22.3	14.8	12.5	3.40
	1.67	732	582	437	270	207	170	126	100	71.0	56.1	46.5	31.8	26.5	22.6	15.0	12.7	3.43
GL-12180	1.85	709	569	454	291	223	182	135	109	78.6	62.4	51.9	35.4	29.3	25.0	16.4	13.8	3.78
	1.80	744	597	477	306	235	191	144	115	82.8	65.4	54.6	37.5	31.2	26.6	17.5	14.8	4.02
	1.75	813	633	501	312	239	199	150	118	84.3	66.6	55.2	37.8	31.5	26.8	17.8	15.0	4.08
	1.67	879	699	525	324	248	204	151	120	85.1	67.3	55.8	38.2	31.8	27.1	18.0	15.2	4.12
GL-12200	1.85	787	632	505	324	248	203	150	121	87.3	69.3	57.7	39.3	32.6	27.8	18.2	15.3	4.20
	1.80	827	663	530	340	261	213	160	128	92.0	72.7	60.7	41.7	34.7	29.5	19.4	16.5	4.47
	1.75	903	703	557	347	266	222	167	132	93.7	74.0	61.3	42.0	35.0	29.8	19.8	16.7	4.53
	1.67	977	777	583	360	276	227	168	133	94.6	74.7	61.9	42.4	35.3	30.1	20.0	16.9	4.58
GL-12230	1.85	905	726	580	372	285	233	173	140	100	79.7	66.3	45.2	37.5	32.0	21.0	17.6	4.83
	1.80	951	763	609	391	300	245	184	147	106	83.6	69.8	47.9	39.9	34.0	22.3	18.9	5.14
	1.75	1039	809	640	399	306	255	192	151	108	85.1	70.5	48.3	40.2	34.3	22.7	19.2	5.21
	1.67	1123	893	671	414	317	261	194	153	109	85.9	71.2	48.8	40.7	34.6	23.0	19.4	5.27
GL-12250	1.85	984	790	631	405	310	253	188	152	109	86.7	72.1	49.2	40.7	34.7	22.8	19.1	5.25
	1.80	1033	829	662	425	326	266	200	160	115	90.8	75.8	52.1	43.3	36.9	24.2	20.6	5.58
	1.75	1129	879	696	433	332	277	208	165	117	92.5	76.7	52.5	43.7	37.2	24.7	20.9	5.67
	1.67	1221	971	729	450	345	283	210	166	118	93.4	77.4	53.0	44.2	37.6	25.0	21.1	5.72
GL-12280	1.85	1102	884	707	453	348	284	210	170	122	97.1	80.7	55.1	45.6	38.9	25.5	21.4	5.88
	1.80	1157	929	742	476	365	298	224	179	129	102	84.9	58.3	48.5	41.3	27.2	23.1	6.25
	1.75	1265	985	779	485	372	310	233	184	131	104	85.9	58.8	49.0	41.7	27.7	23.4	6.35
	1.67	1367	1087	817	504	386	317	236	186	132	105	86.7	59.4	49.5	42.1	27.9	23.6	6.41
GL-12300	1.85	1181	948	757	486	372	304	225	182	131	104	86.5	59.0	48.8	41.7	27.3	22.9	6.30
	1.80	1240	995	795	510	391	319	240	191	138	109	91.0	62.5	52.0	44.3	29.1	24.7	6.70
	1.75	1355	1055	835	520	398	332	250	197	140	111	92.0	63.0	52.5	44.7	29.6	25.0	6.80
	1.67	1465	1165	875	540	413	340	252	199	142	112	92.9	63.6	53.0	45.1	29.9	25.3	6.87

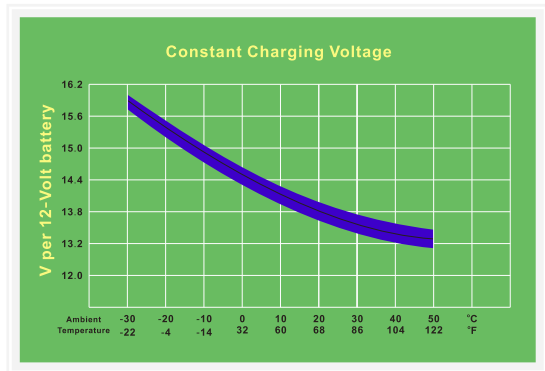
Actual Battery Discharge Data may be +/-5% of figures shown above.



BATTERY CYCLING ABILITY

The EverExceed's Gellyte Range VRLA Battery excels in cycling applications.

Gellyte Range batteries are capable of 5000+ charge / discharge cycles depending on the depth of discharge.



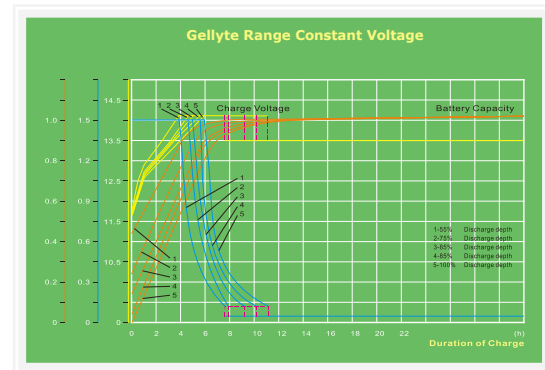
CONSTANT CHARGING VOLTAGE:

Shown is the constant charging voltage in relation to the ambient temperature.

The bandwidth shows a tolerance of $\pm 30\text{mV/cell}$.

This constant voltage is suitable for continuous charging and cyclic operation.

In a parallel standby (floating) condition it always keeps the battery in a fully charged state; in a cyclic condition, it provides for rapid recharging and high cyclic performance.

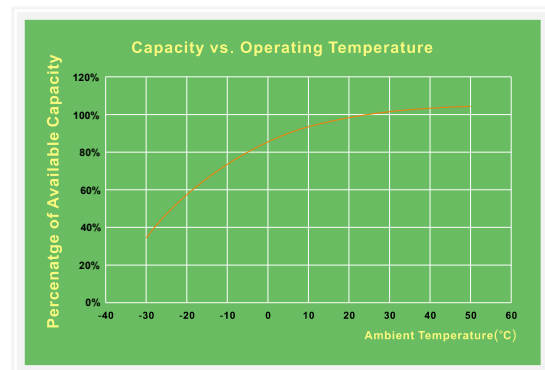


Constant Voltage charging is recommended

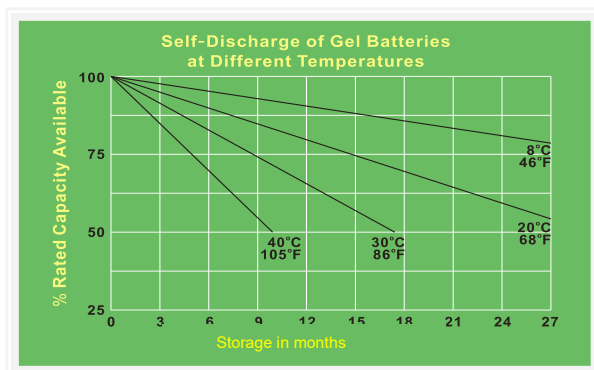
Recommended float voltage: 2.27VPC @ 25°C(77°F)

Float Voltage Range: 2.25VPC to 2.30 VPC @ 25°C(77°F)

Equalize voltage: 2.35VPC for 12 Hours



CAPACITY VS. OPERATING TEMPERATURES



Self-discharge in relation to the storage temperature.



EverExceed[®]

power your applications



EverExceed | Empower, Energize, Exceed the Energy you Expect forever.



Headquarter:

Shenzhen EverExceed Industrial Co., Ltd

📍 Floor 19, Kechuang Building Hengchangrong
High TechPark, Dezheng Road, Shiyao Bao'an
District, Shenzhen.

🌐 www.everexceed.com

✉ marketing@everexceed.com

Branch Company:

EverExceed International Company Limited (HK)

📍 19H Maxgrand Plaza No3 Tai Yau St San PO Kong KLN Hongkong

✉ info@everexceed.com

EverExceed Corporation Ltd. (UK)

📍 Unit G25 WaterFront Studios, 1 Dock Road, London, United Kingdom

✉ Europe@everexceed.com