



# *Deep Cycle Gel range VRLA*



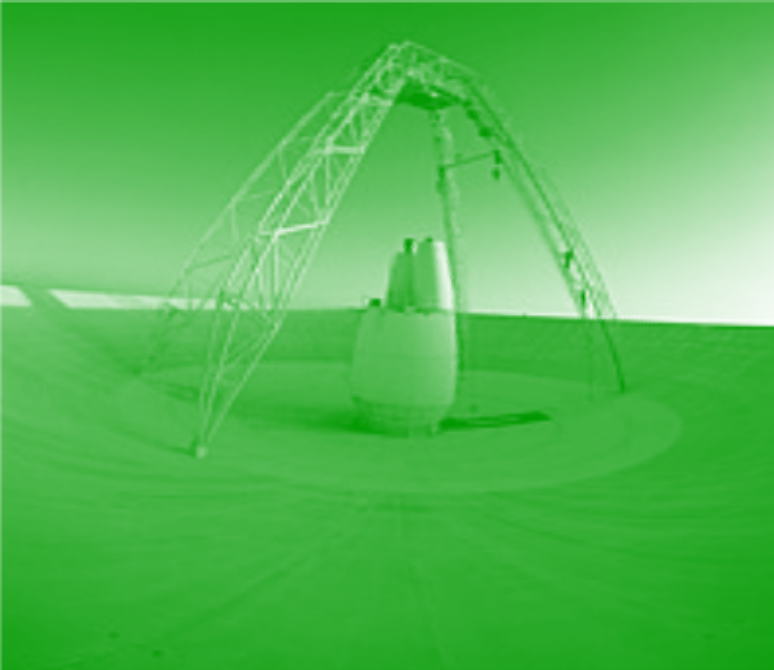
*Outstanding performance and cost efficient*



## Gelled-electrolyte VRLA Battery

Capacities : 26 Ah to 250 Ah @ C/20


The extremely powerful and reliable EverExceed's Deep Cycle Gel Range VRLA batteries perfectly fulfill the requirements for many different applications including telecommunications, 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 start-of-the-art manufacturing process to produce the most cost effective battery solution for today's applications.



### Designed in Quality Manufacturing

Advanced American technology and the use of the most modern computer-aided design and manufacturing techniques combine to make EverExceed's Deep Cycle Gel Range Batteries the ideal power solution for your applications. Each and every unit is capacity tested.

### Innovative Features

- ☞ Exceptional energy storage capacity combined with long life - BCI Classification
- ☞ Thick positive plate design for maximum service float life - 12 year design life @ 20°C(68°F)
- ☞  UL Recognized component .
- ☞ Spill-proof and leak-proof
- ☞ Maintenance-free (no topping up) during the whole service life due to EverExceed GEL technology
- ☞ Flame-arresting one-way pressure-relief vent for safe and long life
- ☞ Electrolyte in solid gel form will not stratify - no equalization charge required
- ☞ Increased durability and deep cycle ability for heavy-duty applications
- ☞ Fully tank formed grid Lead Calcium Tin plate ensures voltage matching between cells
- ☞ Shelf life up to 2 years at 20°C (68°F), very low gassing due to internal gas recombination
- ☞ Can be used in any orientation. Upright, side or end mounting recommended

### Applications

- |                       |                           |
|-----------------------|---------------------------|
| ☞ Telecommunication   | ☞ Solar / Photovoltaic    |
| ☞ Water Pumping       | ☞ Wind Generation         |
| ☞ Residential         | ☞ Power Wheelchairs       |
| ☞ Cathodic Protection | ☞ Navigation Aids         |
| ☞ Remote Monitoring   | ☞ RV / Marine             |
| ☞ Refrigeration       | ☞ Golf Cart               |
| ☞ Lighting            | ☞ Many Other Applications |

### Specifications

Voltage .....6 & 12 volts nominal  
 Plate alloy .....calcium / tin lead alloy  
 Element, post ..... Silver plated Copper female insert  
 Container/cover ... Reinforced ABS, UL V-0 on request  
 Specific ... .....1.280  
 Electrolyte ..... Sulfuric acid thixotropic gel  
 Vent ..... Self sealing (2 PSI operation)

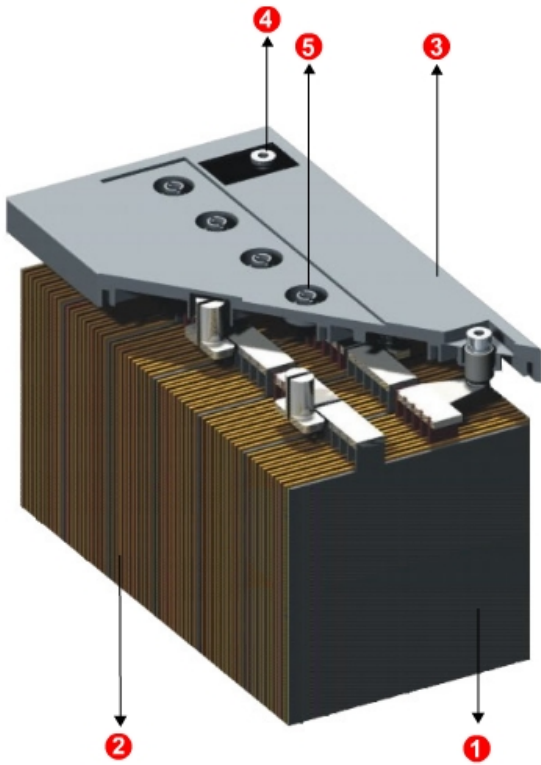
### No transport restrictions

- ☞ 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 (99.9999%) to minimize the negative effects of impurities.

Gel separator is supplied by the leading manufacturer in the field, utilizing the latest world technology. The base material is a microporous duroplastic exhibiting excellent high temperature stability and mechanical strength, resulting in very good resistance to vibration and mechanical shock. The integrity of the battery will be maintained under extreme conditions.

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.



- 1 Plates:** calcium / tin lead alloy, optimized for high corrosion resistance
- 2 Separator:** Microporous and robust, for electrical separation of the positive and negative plates and optimized for low internal resistance
- 3 Standard Housing:** Reinforced ABS (UL 94HB) container and cover  
**Optional Housing:** Flame-retardant reinforced ABS container and cover compliant with U.L.94 V-0 with an Oxygen limiting Index of greater than 28%.
- 4 Terminals:** Silver plated Copper female insert for easy and safe assembly and maintenance free connection with excellent conductivity
- 5 Valves:** Release gas in case of excess pressure and protect 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 V.R.L.A. 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. 2 PSI (14Kpa), resealing at approx 1.2 PSI (8.4Kpa).

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

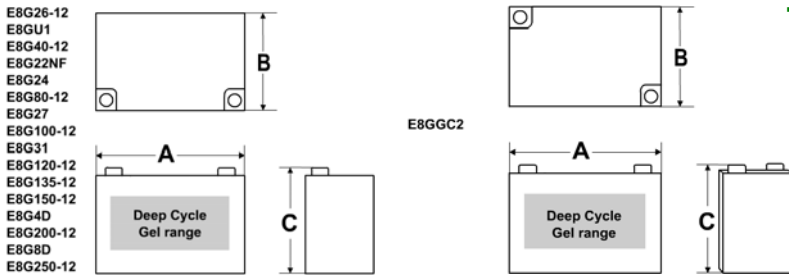
**TERMINAL CONSTRUCTION** - The contact quality between the copper insert female terminal and the lead post is of vital importance during short duration / high Amps discharge. Elevated terminal temperatures are the result of poor contact, eventually causing seal degradation and electrolyte leaks. EverExceed's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

# Deep Cycle Gel Range Data & Dimensions

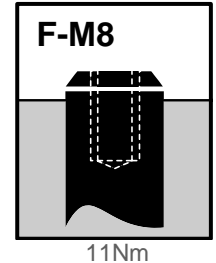
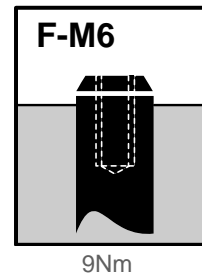
Battery Model	Capacity C/20 1.75VPC	Capacity C/5 1.75VPC	CCA@ -18°C 0°F	CCA@ 0°C 32°F	Short Circuit Amps	Internal Resistance Milli-Ohms	Female Terminal Type	Battery weight		Overall Battery Dimensions					
										Length		Width		Height	
								KG	lbs	Inch	mm	Inch	mm	Inch	mm
E8G26-12 / 12-30G	26	20.1	190	250	1100	10.8	F-M6	9.4	20.7	6.54	166	4.96	126	6.93	176
E8GU1 / 12-40G	33	25.6	240	320	1500	7.3	F-M6	12.0	26.4	7.72	166	5.16	131	6.26	159
E8G40-12 / 12-50G	40	31.0	260	350	1700	6.0	F-M6	14.0	30.8	7.80	198	6.54	166	6.69	170
E8G22NF / 12-60G	55	42.6	280	380	1900	5.6	F-M6	18.7	41.1	9.02	229	5.43	138	8.43	214
E8G24 / 12-70G	75	58.1	410	550	2100	5.4	F-M6	25.0	55.0	10.2	259	6.62	168	8.50	215
E8G80-12 / 12-80G	80	61.9	460	620	2400	4.5	F-M6	28.0	61.6	10.2	259	6.62	168	8.50	215
E8G27 / 12-90G	90	69.7	510	680	2650	4.3	F-M6	30.0	66.2	12.0	305	6.62	168	8.50	215
E8G100-12 / 12-100G	100	77.4	580	780	2900	3.9	F-M6	31.0	68.4	12.0	305	6.62	168	8.50	215
E8G31 / 12-110G	110	85.1	710	960	3000	3.4	F-M6	33.0	72.6	13.1	332	6.86	174	8.67	220
E8G120-12 / 12-120G	120	92.9	760	1020	3300	3.1	F-M6	35.0	77.2	16.1	408	6.90	175	9.21	234
E8G135-12 / 12-135G	135	105	850	1150	3650	3.0	F-M8	39.6	87.5	13.4	340	6.81	173	11.3	288
E8G150-12 / 12-150G	150	116	970	1300	4200	2.9	F-M8	45.0	99.2	18.9	480	6.70	170	9.45	240
E8G4D / 12-160G	160	124	1020	1350	4450	2.8	F-M8	52.2	115	20.9	530	8.23	209	8.67	220
E8G200-12 / 12-200G	200	155	1240	1670	5400	2.2	F-M8	65.0	143	20.5	520	9.37	238	8.67	220
E8G8D / 12-230G	232	180	1400	1870	5900	2.1	F-M8	75.0	165	20.5	520	10.6	269	8.27	210
E8G250-12 / 12-250G	250	194	1500	2010	6300	2.0	F-M8	80.0	176	20.5	520	10.6	269	8.67	220
E8GGC2 / 6-200G	200	155	1200	1600	5000	2.3	F-M8	31.0	68.4	12.6	320	6.82	173	9.06	230

\* Actual Battery Dimensions may vary by +1%

\* E8GGC2 / 6-200G Nominal voltage: 6 Volts



## Terminal and torque



# Charging Information

\*AMPERE HOUR CAPACITY IS A NOMINAL RATING.  
ALL RATINGS ARE AFTER 15 CYCLES AND CONFORM TO B.C.I. SPECIFICATIONS.

**BATTERY VOLTAGE:** All batteries are 12 Volt excluding MODEL E8GGC2, which is 6 Volt.

**IMPORTANT CHARGING INSTRUCTIONS:** WARRANTY VOID IF OPENED OR IMPROPERLY CHARGED.

Constant under or overcharging will damage any battery and shorten its life! Battery must be charged using a constant potential voltage regulated charger or voltage regulated solar controller.

For a 12-volt battery, charge to at least 13.8 volts but no more than 14.1 volts at 68°F (20°C). For a 6-volt battery, charge to at least 6.90 volts but no more than 7.05 volts at 68°F (20°C). Do not charge in an air-tight condition.

# Deep Cycle Gel Range Discharge Ampere Hour Data @ 20°C (68°F).

Battery Model	End VPC	DISCHARGE AMPS TIME IN MINUTES					End VPC	Discharge Ampere Hours @ 20°C (68°F) Discharge Time In Hours												
		15	30	45	60	1.5		2	3	4	5	8	10	12	20	24	48	72	100	
E8G26-12 12-30G	1.80	36.9	23.6	17.6	14.6	1.85	14.0	15.7	17.0	17.9	18.5	20.6	21.3	21.7	23.9	24.5	25.6	26.4	27.3	
	1.75	39.9	24.4	18.1	14.9	1.80	14.8	16.7	18.0	19.0	19.6	21.9	22.8	23.3	25.2	25.7	26.4	27.2	28.1	
	1.67	42.0	24.9	18.2	15.0	1.75	15.2	17.1	18.5	19.4	20.1	22.5	23.4	23.9	26.0	26.4	27.1	28.0	28.9	
E8GU1 12-40G	1.80	43.8	28.1	21.0	17.3	1.85	17.8	19.9	21.6	22.7	23.5	26.2	27.0	27.6	30.4	31.0	32.4	33.5	34.8	
	1.75	47.5	29.0	21.6	17.8	1.80	18.8	21.2	22.9	24.0	25.0	27.8	28.9	29.4	32.1	32.5	33.6	34.6	35.6	
	1.67	49.9	29.7	21.7	17.9	1.75	19.3	21.7	23.5	24.6	25.6	28.5	29.7	30.3	33.0	33.5	34.5	35.5	36.6	
E8G40-12 12-50G	1.80	53.1	34.0	25.4	21.0	1.85	21.5	24.2	26.2	27.5	28.5	31.8	32.8	33.4	36.4	37.6	39.3	40.7	42.1	
	1.75	57.6	35.2	26.2	21.5	1.80	22.8	25.6	27.8	29.2	30.2	33.7	35.1	35.7	38.9	39.4	40.7	42.1	43.4	
	1.67	60.5	36.0	26.3	21.7	1.75	23.4	26.3	28.4	29.9	31.0	34.6	36.0	36.7	40.0	40.6	41.8	43.0	44.3	
E8G22NF 12-60G	1.80	73.0	46.8	34.9	28.9	1.85	29.6	33.2	36.0	37.8	39.2	43.7	45.0	45.9	50.1	51.6	54.0	55.9	57.8	
	1.75	79.2	48.4	36.0	29.6	1.80	31.4	35.3	38.2	40.1	41.5	46.3	48.2	49.1	53.5	54.2	56.0	57.8	59.7	
	1.67	83.2	49.5	36.1	29.8	1.75	32.2	36.1	39.1	41.1	42.6	47.5	49.5	50.5	55.0	55.8	57.4	59.2	60.9	
E8G24 12-70G	1.80	99.6	63.8	47.6	39.3	1.85	40.4	45.3	48.7	51.6	53.4	59.6	61.3	62.7	68.3	70.4	73.6	76.3	78.9	
	1.75	108	66.0	49.1	40.3	1.80	42.9	48.1	52.1	54.6	56.7	63.2	65.8	66.9	72.9	73.9	76.4	78.9	81.3	
	1.67	113	67.5	49.3	40.6	1.75	43.9	49.3	53.4	56.0	58.1	64.8	67.5	68.9	75.0	76.2	78.4	80.7	83.1	
E8G80-12 12-80G	1.80	106	68.0	50.8	41.9	1.85	43.1	48.3	52.3	55.0	56.9	63.6	65.5	66.9	72.8	75.1	78.5	81.3	84.3	
	1.75	114	70.4	52.4	43.0	1.80	45.6	51.3	55.5	58.4	60.4	67.4	70.2	71.5	77.7	78.9	81.4	84.1	86.8	
	1.67	121	71.9	52.6	43.3	1.75	46.8	52.5	56.9	59.8	61.9	69.1	72.0	73.4	80.0	81.2	83.5	86.1	88.5	
E8G27 12-90G	1.80	119	76.5	57.1	47.2	1.85	48.4	54.4	58.9	61.9	64.1	71.5	73.7	75.2	81.9	84.5	88.3	91.5	94.6	
	1.75	130	79.2	58.9	48.4	1.80	51.4	57.7	62.5	65.6	68.0	75.8	78.9	80.4	87.5	88.7	91.6	94.6	97.6	
	1.67	136	80.9	59.1	48.7	1.75	52.7	59.1	64.0	67.2	69.7	77.8	81.0	82.6	90.0	91.4	94.0	96.8	99.6	
E8G100-12 12-100G	1.80	133	85.0	63.5	52.5	1.85	53.8	60.4	65.4	68.7	71.2	79.5	81.9	83.5	91.0	93.9	98.1	102	105	
	1.75	144	88.0	65.5	53.8	1.80	57.1	64.1	69.4	72.9	75.5	84.2	87.7	89.3	97.2	98.6	102	105	108	
	1.67	151	89.9	65.7	54.1	1.75	58.5	65.7	71.1	74.7	77.4	86.4	90.0	91.8	100	102	104	108	111	
E8G31 12-110G	1.80	146	93.5	69.8	57.7	1.85	59.2	66.5	72.0	75.6	78.3	87.4	90.1	91.9	100	103	108	112	116	
	1.75	158	96.8	72.0	59.2	1.80	62.8	70.5	76.3	80.2	83.1	92.7	96.4	98.3	107	108	112	116	119	
	1.67	166	98.9	72.3	59.6	1.75	64.4	72.3	78.2	82.2	85.1	95.0	99.0	101	110	112	115	118	122	
E8G120-12 12-120G	1.80	159	102	76.2	63.0	1.85	64.6	72.5	78.5	82.5	85.4	95.4	98.3	109	109	113	118	122	126	
	1.75	173	106	78.5	64.5	1.80	68.5	76.9	83.3	87.5	90.7	101	105	117	117	118	122	126	130	
	1.67	182	108	78.9	65.0	1.75	70.2	78.8	85.3	89.6	92.9	104	108	120	120	122	125	129	133	
E8G135-12 12-135G	1.80	179	115	85.7	70.9	1.85	72.7	81.6	88.3	92.8	96.1	107	111	123	123	127	133	137	142	
	1.75	195	119	88.3	72.6	1.80	77.1	86.5	93.7	98.4	102	114	118	132	132	133	137	142	146	
	1.67	205	122	88.8	73.1	1.75	79.0	88.7	96.0	101	105	117	122	135	135	137	141	145	150	
E8G150-12 12-150G	1.80	199	128	95.2	78.7	1.85	80.7	90.7	98.1	103	107	119	123	125	137	141	147	152	158	
	1.75	216	132	98.2	80.7	1.80	85.6	96.2	104	109	113	126	131	134	146	148	153	158	163	
	1.67	227	135	98.6	81.2	1.75	87.8	98.6	107	112	116	130	135	138	150	152	157	161	166	
E8G4D 12-160G	1.80	212	137	102	83.9	1.85	86.1	96.7	105	110	114	127	131	133	146	150	157	162	169	
	1.75	230	141	105	86.1	1.80	91.3	103	111	116	121	134	140	143	156	158	163	169	174	
	1.67	242	144	105	86.6	1.75	93.7	105	114	119	124	139	144	147	160	162	167	172	177	
E8G200-12 12-200G	1.80	265	170	127	105	1.85	108	121	131	137	142	159	164	167	182	188	196	203	210	
	1.75	288	176	131	108	1.80	114	128	139	146	151	168	175	179	194	197	204	210	217	
	1.67	303	180	131	108	1.75	117	131	142	149	155	173	180	184	200	203	209	215	221	
E8G8D 12-230G	1.80	308	197	147	122	1.85	125	140	152	159	165	184	190	194	211	218	228	236	244	
	1.75	334	204	152	125	1.80	132	149	161	169	175	195	203	207	226	229	236	244	252	
	1.67	351	209	152	126	1.75	136	152	165	173	180	200	209	213	232	235	242	250	257	
E8G250-12 12-250G	1.80	332	212	158	131	1.85	135	151	164	171	178	198	205	209	227	235	246	254	263	
	1.75	360	220	164	135	1.80	142	161	173	182	189	210	219	223	244	247	254	263	272	
	1.67	378	225	164	136	1.75	147	164	178	186	194	216	225	230	250	253	261	269	277	
E8GGC2 6-200G	1.80	265	170	127	105	1.85	108	121	131	137	142	159	164	167	182	188	196	203	210	
	1.75	288	176	131	108	1.80	114	128	139	146	151	168	175	179	194	197	204	210	217	
	1.67	303	180	131	108	1.75	117	131	142	149	155	173	180	184	200	203	209	215	221	

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

# Deep Cycle Gel Range Discharge Amps Data @ 20°C (68°F).

Battery Model	End VPC	AMPS @ 20°C (68°F) TIME IN MINUTES				End VPC	Discharge Ampere Hours @ 20°C (68°F) Discharge Time In Hours												
		15	30	45	60		1.5	2	3	4	5	8	10	12	20	24	48	72	100
E8G26-12 12-30G	1.80	33.6	21.5	16.0	13.3	1.85	8.50	7.16	5.17	4.07	3.38	2.35	1.94	1.65	1.09	0.93	0.48	0.33	0.25
	1.75	36.4	22.2	16.5	13.6	1.80	9.00	7.60	5.48	4.32	3.58	2.50	2.08	1.76	1.15	0.97	0.50	0.35	0.26
	1.67	38.3	22.7	16.6	13.7	1.75	9.20	7.80	5.62	4.43	3.67	2.56	2.13	1.81	1.19	1.00	0.52	0.35	0.26
E8GU1 12-40G	1.80	43.8	28.1	21.0	17.3	1.85	11.8	10.0	7.20	5.67	4.70	3.28	2.70	2.30	1.51	1.29	0.68	0.47	0.34
	1.75	47.5	29.0	21.6	17.8	1.80	12.5	10.5	7.63	6.02	4.98	3.48	2.89	2.45	1.61	1.36	0.70	0.48	0.36
	1.67	49.9	29.7	21.7	17.9	1.75	12.8	10.9	7.82	6.16	5.11	3.56	2.97	2.53	1.65	1.40	0.72	0.49	0.37
E8G40-12 12-50G	1.80	53.1	34.0	25.4	21.0	1.85	14.4	12.1	8.72	6.87	5.70	3.97	3.28	2.78	1.82	1.56	0.82	0.56	0.42
	1.75	57.6	35.2	26.2	21.5	1.80	15.2	12.8	9.25	7.29	6.04	4.21	3.51	2.98	1.94	1.64	0.85	0.58	0.43
	1.67	60.5	36.0	26.3	21.7	1.75	15.6	13.1	9.48	7.47	6.19	4.32	3.60	3.06	2.00	1.69	0.87	0.60	0.44
E8G22NF 12-60G	1.80	73.0	46.8	34.9	28.9	1.85	19.7	16.6	12.0	9.45	7.83	5.46	4.50	3.83	2.50	2.15	1.12	0.78	0.58
	1.75	79.2	48.4	36.0	29.6	1.80	20.9	17.6	12.7	10.0	8.31	5.79	4.82	4.09	2.67	2.26	1.17	0.80	0.60
	1.67	83.2	49.5	36.1	29.8	1.75	21.5	18.1	13.0	10.3	8.51	5.94	4.95	4.21	2.75	2.33	1.20	0.82	0.61
E8G24 12-70G	1.80	99.6	63.8	47.6	39.3	1.85	26.9	22.7	16.4	12.8	10.7	7.46	6.13	5.22	3.41	2.93	1.53	1.06	0.79
	1.75	108	66.0	49.1	40.3	1.80	28.5	24.0	17.3	13.8	11.3	7.90	6.58	5.58	3.64	3.08	1.59	1.09	0.82
	1.67	113	67.5	49.3	40.6	1.75	29.2	24.7	17.8	14.1	11.6	8.10	6.75	5.75	3.75	3.17	1.63	1.12	0.83
E8G80-12 12-80G	1.80	107	68.0	50.8	41.9	1.85	28.7	24.2	17.4	13.7	11.4	7.90	6.60	5.60	3.60	3.10	1.60	1.10	0.80
	1.75	115	70.4	52.4	43.0	1.80	30.5	25.6	18.5	14.6	12.1	8.40	7.00	6.00	3.90	3.30	1.70	1.20	0.90
	1.67	121	71.9	52.6	43.3	1.75	31.2	26.3	19.0	15.0	12.4	8.60	7.20	6.10	4.00	3.40	1.70	1.20	0.90
E8G27 12-90G	1.80	119	76.5	57.1	47.2	1.85	32.3	27.2	19.6	15.5	12.8	8.94	7.37	6.27	4.10	3.52	1.84	1.27	0.95
	1.75	130	79.2	58.9	48.4	1.80	34.3	28.9	20.8	16.4	13.6	9.48	7.89	6.70	4.37	3.70	1.91	1.31	0.98
	1.67	136	80.9	59.1	48.7	1.75	35.1	29.6	21.3	16.8	13.9	9.72	8.10	6.89	4.50	3.81	1.96	1.34	1.00
E8G100-12 12-100G	1.80	133	85.0	63.5	52.5	1.85	35.9	30.2	21.8	17.2	14.2	9.94	8.19	6.96	4.55	3.91	2.04	1.41	1.05
	1.75	144	88.0	65.5	53.8	1.80	38.1	32.1	23.1	18.2	15.1	10.5	8.77	7.44	4.86	4.11	2.12	1.46	1.08
	1.67	151	89.9	65.7	54.1	1.75	39.0	32.9	23.7	18.7	15.5	10.8	9.00	7.65	5.00	4.23	2.18	1.49	1.11
E8G31 12-110G	1.80	146	93.5	69.8	57.7	1.85	39.5	33.2	24.0	18.9	15.7	10.9	9.01	7.66	5.01	4.30	2.25	1.55	1.16
	1.75	158	96.8	72.0	59.2	1.80	41.9	35.3	25.4	20.0	16.6	11.6	9.64	8.19	5.35	4.52	2.33	1.61	1.19
	1.67	166	98.9	72.3	59.6	1.75	42.9	36.1	26.1	20.5	17.0	11.9	9.90	8.42	5.50	4.65	2.39	1.64	1.22
E8G120-12 12-120G	1.80	159	102	76.2	63.0	1.85	43.1	36.3	26.2	20.6	17.1	11.9	9.83	9.10	5.46	4.69	2.45	1.69	1.26
	1.75	173	106	78.5	64.5	1.80	45.7	38.5	27.8	21.9	18.1	12.6	10.5	9.73	5.83	4.93	2.54	1.75	1.30
	1.67	182	108	78.9	65.0	1.75	46.8	39.4	28.4	22.4	18.6	13.0	10.8	10.0	6.00	5.08	2.61	1.79	1.33
E8G135-12 12-135G	1.80	179	115	85.7	70.9	1.85	48.5	40.8	29.5	23.2	19.2	13.4	11.1	10.2	6.14	5.28	2.76	1.90	1.42
	1.75	195	119	88.3	72.6	1.80	51.4	43.3	31.3	24.6	20.4	14.2	11.8	10.9	6.56	5.55	2.86	1.97	1.46
	1.67	205	122	88.8	73.1	1.75	52.7	44.3	32.0	25.2	20.9	14.6	12.2	11.3	6.75	5.72	2.94	2.01	1.50
E8G150-12 12-150G	1.80	199	128	95.2	78.7	1.85	53.8	45.3	32.7	25.8	21.4	14.9	12.3	10.4	6.83	5.87	3.07	2.12	1.58
	1.75	216	132	98.2	80.7	1.80	57.1	48.1	34.7	27.3	22.7	15.8	13.1	11.2	7.29	6.16	3.18	2.19	1.63
	1.67	227	135	98.6	81.2	1.75	58.5	49.3	35.6	28.0	23.2	16.2	13.5	11.5	7.50	6.34	3.26	2.24	1.66
E8G4D 12-160G	1.80	212	137	102	83.9	1.85	57.4	48.3	34.9	27.5	22.8	15.9	13.1	11.1	7.29	6.26	3.27	2.26	1.69
	1.75	230	141	105	86.1	1.80	60.9	51.3	37.0	29.1	24.2	16.9	14.0	11.9	7.78	6.57	3.39	2.34	1.74
	1.67	242	144	105	86.6	1.75	62.4	52.6	38.0	29.9	24.7	17.3	14.4	12.3	8.00	6.76	3.48	2.39	1.77
E8G200-12 12-200G	1.80	265	170	127	105	1.85	71.8	60.4	43.6	34.4	28.5	19.9	16.4	13.9	9.10	7.82	4.09	2.82	2.10
	1.75	288	176	131	108	1.80	76.1	64.1	46.3	36.5	30.2	21.1	17.5	14.9	9.72	8.21	4.24	2.92	2.17
	1.67	303	180	131	108	1.75	78.0	65.7	47.4	37.4	31.0	21.6	18.0	15.3	10.0	8.46	4.35	2.99	2.21
E8G8D 12-230G	1.80	308	197	147	122	1.85	83.2	70.1	50.6	39.9	33.0	23.1	19.0	16.2	10.6	9.08	4.74	3.28	2.44
	1.75	334	204	152	125	1.80	88.3	74.4	53.7	42.3	35.1	24.4	20.3	17.3	11.3	9.53	4.92	3.39	2.52
	1.67	351	209	152	126	1.75	90.5	76.2	55.0	43.3	35.9	25.1	20.9	17.7	11.6	9.81	5.05	3.47	2.57
E8G250-12 12-250G	1.80	332	212	158	131	1.85	89.7	75.5	54.5	43.0	35.6	24.9	20.5	17.5	11.4	9.8	5.11	3.53	2.63
	1.75	360	220	164	135	1.80	95.2	80.2	57.9	45.6	37.8	26.3	21.9	18.6	12.2	10.3	5.30	3.65	2.72
	1.67	378	225	164	136	1.75	97.5	82.1	59.3	46.7	38.7	27.0	22.5	19.1	12.5	10.6	5.44	3.74	2.77
E8GGC2 6-200G	1.80	265	170	127	105	1.85	71.8	60.4	43.6	34.4	28.5	19.9	16.4	13.9	9.10	7.82	4.09	2.82	2.10
	1.75	288	176	131	108	1.80	76.1	64.1	46.3	36.5	30.2	21.1	17.5	14.9	9.72	8.21	4.24	2.92	2.17
	1.67	303	180	131	108	1.75	78.0	65.7	47.4	37.4	31.0	21.6	18.0	15.3	10.0	8.46	4.35	2.99	2.21

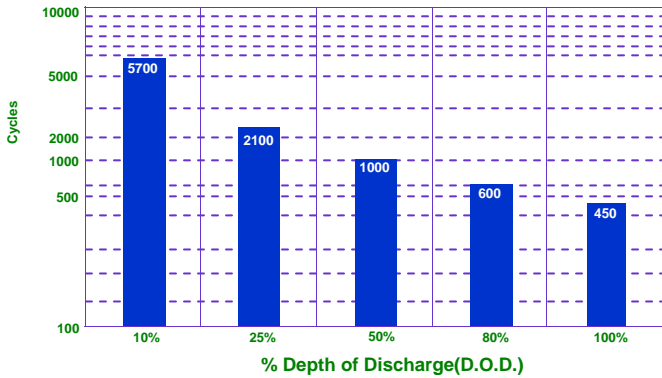
Actual Battery Discharge Data may be +/-5% of figures shown above.

# Deep Cycle Gel Range Discharge Watts Per Cell @ 20°C (68°F).

Battery Model	End VPC	Watts Per Cell @ 20°C (68°F) TIME IN MINUTES				End VPC	Discharge Watts Per Cell @ 20°C (68°F) Discharge Time In Hours									
		15	30	45	60		1.5	2	3	4	5	8	10	12	20	24
E8G26-12 12-30G	1.80	67.7	44.1	33.5	28.0	1.85	16.1	15.1	11.1	8.77	7.30	5.13	4.25	3.62	2.39	2.04
	1.75	73.5	45.6	34.4	28.6	1.80	18.9	16.0	11.6	9.24	7.69	5.41	4.49	3.85	2.52	2.14
	1.67	77.2	46.6	34.7	28.9	1.75	19.3	15.4	11.1	8.79	7.33	5.13	4.28	3.65	2.40	2.03
E8GU1 12-40G	1.80	80.6	52.4	39.8	33.2	1.85	21.9	19.3	14.0	11.2	9.26	6.52	5.39	4.59	3.04	2.59
	1.75	87.4	54.3	41.0	34.0	1.80	24.0	20.4	14.8	11.7	9.76	6.87	5.70	4.89	3.20	2.72
	1.67	91.9	55.5	41.3	34.4	1.75	24.4	20.8	15.1	11.9	9.92	6.99	5.82	4.97	3.27	2.77
E8G40-12 12-50G	1.80	98	63.6	48.3	40.3	1.85	27.6	23.4	17.0	13.5	11.2	7.90	6.53	5.57	3.65	3.14
	1.75	106	65.8	49.7	41.3	1.80	29.1	24.6	17.9	14.2	11.8	8.33	6.91	5.92	3.88	3.29
	1.67	111	67.3	49.9	41.6	1.75	29.6	25.2	18.3	14.5	12.1	8.47	7.06	6.03	3.96	3.35
E8G22NF 12-60G	1.80	134	87.4	66.3	55.4	1.85	38.0	32.1	23.4	18.5	15.4	10.9	8.98	7.65	5.02	4.32
	1.75	146	90.5	68.4	56.8	1.80	40.0	33.9	24.6	19.5	16.3	11.4	9.50	8.14	5.33	4.52
	1.67	153	92.5	68.7	57.2	1.75	40.8	34.7	25.2	19.9	16.6	11.6	9.70	8.29	5.44	4.61
E8G24 12-70G	1.80	183	119	90.4	75.5	1.85	51.8	43.8	31.8	25.3	21.0	14.8	12.2	10.4	6.84	5.89
	1.75	200	123	93.3	77.4	1.80	54.5	46.2	33.6	26.7	22.2	15.7	12.9	11.1	7.27	6.17
	1.67	209	126	93.6	78.0	1.75	55.6	47.4	34.2	27.2	22.6	15.9	13.1	11.2	7.42	6.28
E8G80-12 12-80G	1.80	196	127	96.5	80.6	1.85	55.2	46.8	33.9	27.0	22.5	15.8	13.0	11.2	7.3	6.3
	1.75	212	131	99.5	82.6	1.80	58.2	49.2	35.8	28.4	23.7	16.6	13.8	11.8	7.8	6.6
	1.67	223	134	99.5	83.2	1.75	59.3	50.5	36.6	29.0	24.1	16.9	14.2	12.1	7.9	6.7
E8G27 12-90G	1.80	220	143	109	90.7	1.85	62.1	52.6	38.2	30.3	25.3	17.8	14.7	12.5	8.21	7.07
	1.75	239	148	112	92.9	1.80	65.4	55.4	40.3	32.0	26.6	18.7	15.5	13.3	8.72	7.39
	1.67	251	151	112	93.6	1.75	66.7	56.8	41.2	32.6	27.2	19.1	15.9	13.6	8.90	7.54
E8G100-12 12-100G	1.80	244	159	121	101	1.85	69.0	58.4	42.5	33.7	28.1	19.7	16.3	13.9	9.12	7.85
	1.75	265	165	124	103	1.80	72.7	61.6	44.8	35.5	29.6	20.8	17.3	14.8	9.69	8.21
	1.67	278	168	125	104	1.75	74.1	63.1	45.7	36.2	30.2	21.2	17.6	15.1	9.89	8.37
E8G31 12-110G	1.80	269	175	133	111	1.85	75.9	64.3	46.7	37.1	30.9	21.7	18.0	15.3	10.0	8.64
	1.75	292	181	137	114	1.80	79.9	67.7	49.3	39.1	32.6	22.9	19.0	16.3	10.7	9.03
	1.67	306	185	137	114	1.75	81.5	69.4	50.3	39.9	33.2	23.3	19.4	16.6	10.9	9.21
E8G120-12 12-120G	1.80	293	191	145	121	1.85	82.8	70.1	51.0	40.5	33.7	23.7	19.6	18.2	10.9	9.42
	1.75	318	197	149	124	1.80	87.2	73.9	53.8	42.7	35.5	25.0	20.7	19.4	11.6	9.86
	1.67	334	202	150	125	1.75	88.9	75.7	54.9	43.5	36.2	25.4	21.2	19.7	11.9	10.0
E8G135-12 12-135G	1.80	330	215	163	136	1.85	93.2	78.9	57.4	45.6	37.9	26.7	22.1	20.5	12.3	10.6
	1.75	358	222	168	140	1.80	98.1	83.1	60.5	48.0	39.9	28.1	23.3	21.8	13.1	11.1
	1.67	376	227	169	141	1.75	100	85.2	61.8	48.9	40.7	28.6	23.9	22.2	13.4	11.3
E8G150-12 12-150G	1.80	366	238	181	151	1.85	104	87.6	63.7	50.6	42.1	29.6	24.5	20.9	13.7	11.8
	1.75	398	247	187	155	1.80	109	92.3	67.2	53.3	44.4	31.2	25.9	22.2	14.5	12.3
	1.67	418	252	187	156	1.75	111	94.6	68.6	54.3	45.3	31.8	26.5	22.6	14.8	12.6
E8G4D 12-160G	1.80	390	254	193	161	1.85	111	93.4	67.9	54.0	44.9	31.6	26.1	22.3	14.6	12.6
	1.75	425	263	199	165	1.80	116	98.5	71.7	56.9	47.4	33.3	27.6	23.7	15.5	13.1
	1.67	446	269	199	166	1.75	118	101	73.2	57.9	48.3	33.9	28.3	24.1	15.8	13.4
E8G200-12 12-200G	1.80	489	318	241	201	1.85	138	117	85.0	67.4	56.1	39.5	32.7	27.8	18.2	15.7
	1.75	530	329	249	207	1.80	145	123	89.6	71.1	59.2	41.6	34.5	29.6	19.4	16.4
	1.67	557	336	250	208	1.75	148	126	91.5	72.5	60.4	42.3	35.3	30.1	19.8	16.7
E8G8D 12-230G	1.80	567	369	280	234	1.85	160	139	99.0	78.2	65.1	45.8	37.9	32.3	21.2	18.2
	1.75	615	382	289	240	1.80	169	143	104	82.5	68.7	48.3	40.1	34.3	22.5	19.1
	1.67	646	390	290	241	1.75	172	146	106	84.1	70.0	49.1	40.9	35.0	22.9	19.4
E8G250-12 12-250G	1.80	611	398	302	252	1.85	172	150	107	84.3	70.2	49.4	40.8	34.8	22.8	19.6
	1.75	663	412	311	259	1.80	182	154	112	88.9	74.0	52.0	43.2	37.0	24.2	20.6
	1.67	696	420	313	260	1.75	185	157	114	90.6	75.4	52.9	44.1	37.7	24.7	20.9
E8GGC2 6-200G	1.80	489	318	241	201	1.85	138	117	85.0	67.4	56.1	39.5	32.7	27.8	18.2	15.7
	1.75	530	329	249	207	1.80	145	123	89.6	71.1	59.2	41.6	34.5	29.6	19.4	16.4
	1.67	557	336	250	208	1.75	148	126	91.5	72.5	60.4	42.3	35.3	30.1	19.8	16.7

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

**Gel Cycle Life vs Depth of Discharge at +25°C (77°F)\*  
Based on BCI 2-hour Capacity**



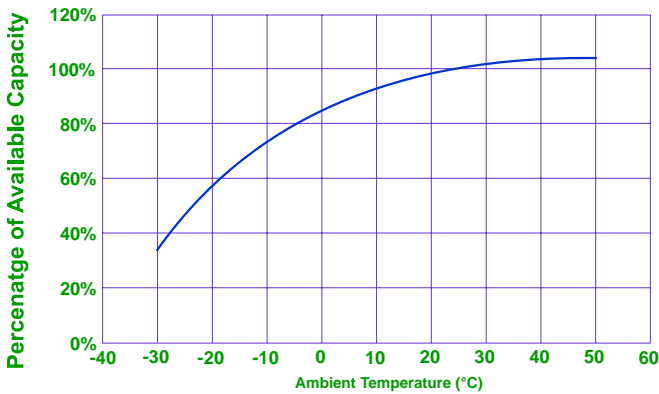
**BATTERY CYCLING ABILITY**

The EverExceed's Deep Cycle Gel Rang Battery excels in cycling applications. Deep Cycle Gel Range batteries are capable of 5000+ charge / discharge cycles depending on the depth of discharge.

**TYPICAL CYCLIC PERFORMANCE**

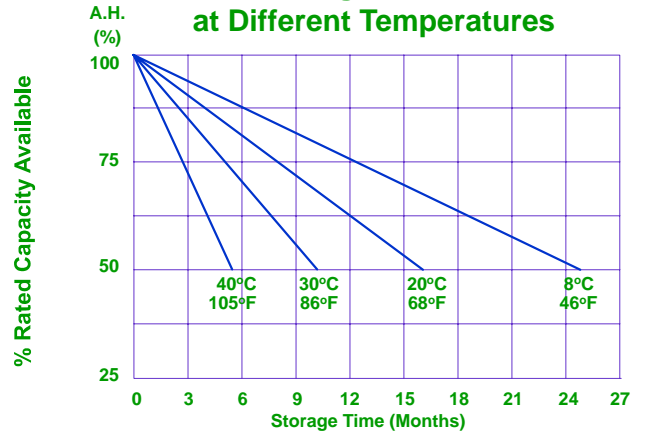
CAPACITY WITHDRAWN	CYCLES
100%	450
80%	600
50%	1000
25%	2100
10%	5700

**Capacity vs. Operating Temperature**

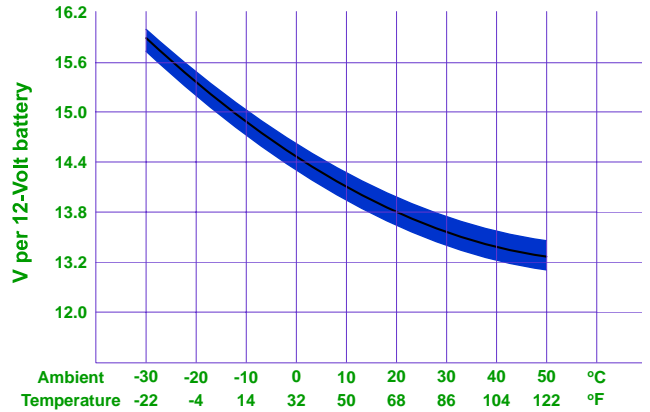


**Capacity vs. Operating Temperatures:** Above are the changes in capacity for wider ambient temperature range, giving the available capacity, as a percentage of the rated capacity, at different ambient temperatures. The curves show the behavior of the battery after a number of cycles.

**Self - Discharge of Gel Batteries at Different Temperatures**



**Constant Charging Voltage**



**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.

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