

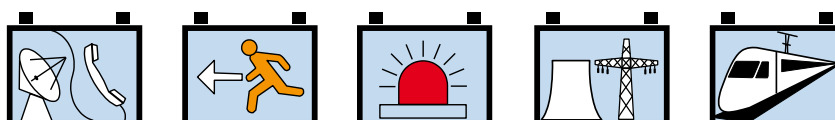


EverExceed®
power your applications

Solar Gel Range VRLA



**»Premium quality for
uninterrupted communication«**



www.everexceed.com



Solar Gel Range VRLA

THE MOST RELIABLE BATTERY
FOR RENEWABLE ENERGY

The EverExceed's Solar Gel Range of valve regulated, gelled electrolyte monobloc is designed to offer reliable, maintenance-free power for renewable energy applications where frequent deep cycles are required and minimum maintenance is desirable.

Applicable Operating temperature range:

-40°C (-40°F) to +70°C (+158°F)

Ideal Operating temperature range:

+20°C (+68°F) to +35°C (+95°F)

Storage time from a fully charged condition:

12 months at 25°C / 77°F.

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

Benefits

Sealed construction eliminates periodic watering, corrosive acid fumes and spills.

Electrolyte will not stratify, reduce the corrosion rate and extended service life;

Increases durability and deep cycle ability for heavy demand applications;

Less than 2% per month self-discharge rate means little deterioration during transport and storage;

Fully tank formation ensures voltage matching between cells;

Conforms to IEC 60896-21/22 & IEC 61427.

Certified by ISO 9001 & ISO 14001.

Innovative Features

- ◆ Valve regulated lead acid (VRLA), deep cycle design;
- ◆ Sulfuric acid thixotropic gel, electrolyte in solid gel form will not stratify - no equalization charge required, Gel powder from Europe leading supplier to ensure the unique performance of gel battery;
- ◆ Highly porous glass micro-fibre separator, the special design increase the high porosity and anti-corrosion and decrease the internal resistance;
- ◆ Virgin Pure Lead Tin and thick positive plate technology design for maximum service float life - 12 years design life @25°C(77°F);
- ◆ 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.
- ◆ Thickness positive plate plus optimized plate alloy to anti-corrosion;
- ◆ Unique performance against high temperature;
- ◆ Spill-proof and leak-proof;
- ◆ Operates at a low internal pressure;
- ◆ Very low gassing due to internal gas recombination;
- ◆ Flame-arresting one-way pressure relief vent for safety and long life;
- ◆ Rated non-spillable by ICAO, IATA and DOT.

Specifications

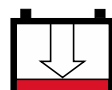
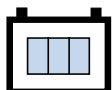
Voltage.....	6&12 volts
Plate alloy.....	Lead Calcium Tin
Element, post.....	Silver plated copper female Insert
Container/cover.....	Reinforced ABS (UL 94HB), Flame-retardant UL 94 V-0 on request;
Charge voltage.....	Cycle 2.30 to 2.35; Float 2.25 to 2.30 per cell;
Electrolyte.....	Sulfuric acid thixotropic gel;
Vent.....	Self sealing (2 PSI operation).

Applications

Photovoltaic / Solar · Cathodic protection

Navigation aids · Communications

Remote monitoring · Power back up



Solar Gel Range Electrical Specifications & Dimensions

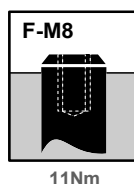
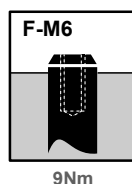
Type No.	Volts	Capacity (Ah) C20 to 1.75Vpc @ 25°C	Capacity (Ah) C100 to 1.80Vpc @ 25°C	Terminal Type	Internal Resistance (mΩ)	Maximum Discharge Current (A) @ 5s	Approx. Wt.		Dimensions (mm / inch)					
							kg	lbs	Length		Width		Height	
ES26-12G	12	26	28.6	F-M6	11.5	312	8.3	17.9	166	6.5	175	6.9	126	5.0
ES35-12G	12	35	38.5	F-M6	9.5	420	10.8	23.4	195	7.7	130	5.1	154	6.1
ES40-12G	12	40	44	F-M6	8.5	480	13.5	29.3	197	7.8	165	6.5	172	6.8
ES55-12G	12	55	60	F-M6	6.7	660	17	36.8	230	9.1	137	5.4	210	8.3
ES60-12G	12	60	66	F-M6	6.5	720	20	43.4	350	13.8	168	6.6	178	7.0
ES70-12G	12	70	77	F-M6	6	840	21.5	46.7	350	13.8	168	6.6	178	7.0
ES80-12G	12	80	88	F-M6	5.5	960	22.5	48.9	259	10.2	168	6.6	215	8.5
ES90-12G	12	90	100	F-M6	5	1080	23	50	259	10.2	168	6.6	215	8.5
ES100-12G	12	100	110	F-M6	4.2	1200	27	58.8	305	12.0	168	6.6	215	8.5
ES120-12G	12	120	132	F-M8	3.4	1320	31.5	68.7	332	13.1	174	6.9	220	8.7
ES135-12G	12	135	150	F-M8	3.3	1350	36.5	79.1	408	16.1	175	6.9	210	8.3
ES150-12G	12	150	165	F-M8	3.2	1500	41	90.2	480	18.9	170	6.7	240	9.5
ES165-12G	12	165	182	F-M8	3	1650	45	97.8	480	18.9	170	6.7	240	9.5
ES180-12G	12	180	200	F-M8	2.8	1800	50	109	530	20.9	210	8.3	220	8.7
ES200-12G	12	200	220	F-M8	2.8	2000	56	122	530	20.9	210	8.3	220	8.7
ES220-12G	12	220	242	F-M8	2.5	2200	60	132	520	20.5	238	9.4	220	8.7
ES240-12G	12	240	265	F-M8	2.4	2400	62	136	520	20.5	238	9.4	220	8.7
ES260-12G	12	260	286	F-M8	2.2	2600	70	154	520	20.5	269	10.6	225	8.9
ES280-12G	12	280	308	F-M8	2.2	2800	73	160	520	20.5	269	10.6	225	8.9
ES300-12G	12	300	330	F-M8	2	3000	75	165	520	20.5	269	10.6	225	8.9

IMPORTANT CHARGING INSTRUCTIONS:

WARRANTY VOID IF OPENED OR IMPROPERLY CHARGED. Do not install in an air-tight condition. Constant under or overcharging will damage any battery and shorten its service life. Use a good constant potential, voltage-regulated charger or voltage regulated solar controller. For 12 volts monobloc, float charging voltage at least 13.5 volts but no more than 13.8 volts at 25°C (77°F), equalization charge voltage at least 14.1 volts but no more than 14.4 volts at 25°C(77°F). For 6 volts monobloc, float charging voltage at least 6.75 volts but no more than 6.9 volts at 77°F (25°C), equalization charge voltage at least 7.05 volts but no more than 7.2 volts at 25°C(77°F). The open circuit voltage of a fully charged 12 volts monobloc is 12.8 volts at 77°F (25°C). However, during the battery charge, the building internal pressure (voltage) causes resistance to the charge. Therefore, the charging voltage must be higher (at least 13.5 volts) to overcome this internal pressure (voltage) during charging.

Temperature Coefficient Factor: -3mV/cell/°C, base temperature is 25°C(77°F).

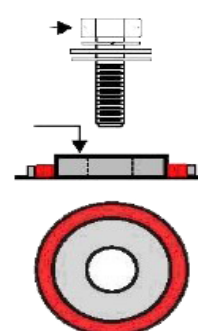
Terminal and torque



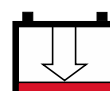
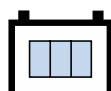
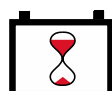
M6 SS Bolt

14mm Dia.

Brass Insert



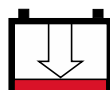
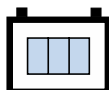
The EveExceed's solar Gel battery excels in cycling applications.
*Dependent upon proper charging and ambient temperatures.



Solar Gel Range Discharge Capacity Ampere Hours Data @ 25°C (77°F)

Model	End Voltage VPC	Discharge Data Amp Hours @ 25°C												
		Discharge Time In Hours												
		1	2	3	4	5	6	8	10	20	24	48	72	100
ES26-12G	1.85	12.6	15.1	17.0	18.5	19.7	20.8	22.3	23.2	25.5	26.0	26.8	27.5	28.0
	1.8	13.3	15.9	18.3	19.5	20.7	21.7	23.1	24.1	26.0	26.5	27.3	28.1	28.6
	1.75	13.7	16.6	18.6	19.9	21.2	22.1	23.5	24.3	26.5	27.0	27.8	28.6	29.1
ES35-12G	1.85	17.0	20.3	22.8	24.9	26.6	28.0	30.1	31.3	34.3	35.0	36.0	37.0	37.7
	1.8	17.9	21.5	24.6	26.2	27.9	29.2	31.1	32.4	35.0	35.7	36.8	37.8	38.5
	1.75	18.5	22.3	25.0	26.8	28.5	29.8	31.6	32.7	35.6	36.3	37.4	38.5	39.2
ES40-12G	1.85	19.4	23.2	26.1	28.4	30.4	32.0	34.4	35.7	39.2	40.0	41.2	42.3	43.1
	1.8	20.4	24.5	28.1	29.9	31.9	33.3	35.6	37.0	40.0	40.8	42.0	43.2	44.0
	1.75	21.1	25.5	28.6	30.7	32.6	34.0	36.1	37.4	40.7	41.5	42.7	43.9	44.8
ES55-12G	1.85	26.7	31.9	35.9	39.1	41.8	44.0	47.3	49.1	53.9	55.0	56.6	58.2	59.3
	1.8	28.1	33.7	38.6	41.1	43.8	45.8	48.9	50.9	55.0	56.1	57.8	59.4	60.5
	1.75	29.1	35.0	39.3	42.2	44.8	46.8	49.7	51.4	56.0	57.1	58.7	60.4	61.5
ES60-12G	1.85	29.1	34.8	39.2	42.7	45.6	48.0	51.6	53.6	58.8	60.0	61.7	63.5	64.7
	1.8	30.6	36.8	42.1	44.9	47.8	50.0	53.3	55.6	60.0	61.2	63.0	64.8	66.0
	1.75	31.7	38.2	42.8	46.0	48.9	51.0	54.2	56.1	61.0	62.3	64.1	65.9	67.1
ES70-12G	1.85	34.0	40.6	45.7	49.8	53.1	56.0	60.1	62.5	68.6	70.0	72.0	74.1	75.5
	1.8	35.7	42.9	49.1	52.4	55.7	58.3	62.2	64.8	70.0	71.4	73.5	75.6	77.0
	1.75	37.0	44.6	50.0	53.7	57.0	59.5	63.3	65.5	71.2	72.6	74.8	76.9	78.3
ES80-12G	1.85	38.8	46.4	52.2	56.9	60.7	64.0	68.7	71.5	78.4	80.0	82.3	84.7	86.2
	1.8	40.8	49.0	56.2	59.9	63.7	66.7	71.1	74.1	80.0	81.6	84.0	86.4	88.0
	1.75	42.3	51.0	57.1	61.3	65.2	68.0	72.3	74.8	81.4	83.0	85.5	87.9	89.5
ES90-12G	1.85	43.7	52.2	58.8	64.0	68.3	72.0	77.3	80.4	88.2	90.0	92.6	95.3	97.0
	1.8	45.9	55.2	63.2	67.3	71.7	75.0	80.0	83.3	90.0	91.8	94.5	97.2	99.0
	1.75	47.6	57.3	64.3	69.0	73.3	76.5	81.3	84.2	91.6	93.4	96.1	98.9	101
ES100-12G	1.85	48.5	58.0	65.3	71.1	75.9	80.0	85.9	89.4	98.0	100.0	103	106	108
	1.8	51.0	61.3	70.2	74.8	79.6	83.3	88.9	92.6	100	102	105	108	110
	1.75	52.9	63.7	71.4	76.7	81.5	85.0	90.4	93.5	102	104	107	110	112
ES120-12G	1.85	58.2	69.6	78.3	85.3	91.1	96.0	103	107	118	120	123	127	129
	1.8	61.2	73.6	84.2	89.8	95.6	100	107	111	120	122	126	130	132
	1.75	63.4	76.4	85.7	92.0	97.8	102	108	112	122	125	128	132	134
ES135-12G	1.85	65.5	78.3	88.1	96.0	103	108	116	121	132	135	139	143	146
	1.8	68.9	82.8	94.8	101	108	113	120	125	135	138	142	146	150
	1.75	71.4	86.0	96.4	104	110	115	122	126	137	140	144	148	151
ES150-12G	1.85	72.8	86.9	97.9	107	114	120	129	134	147	150	154	159	162
	1.8	76.5	91.9	105	112	119	125	133	139	150	153	158	162	165
	1.75	79.3	95.6	107	115	122	128	136	140	153	156	160	165	168
ES165-12G	1.85	80.1	95.6	108	117	125	132	142	147	162	165	170	175	178
	1.8	84.2	101	116	123	131	138	147	153	165	168	173	178	182
	1.75	87.2	105	118	127	134	140	149	154	168	171	176	181	185
ES180-12G	1.85	87.3	104	118	128	137	144	155	161	176	180	185	191	194
	1.8	91.8	110	126	135	143	150	160	167	180	184	189	194	200
	1.75	95.2	115	129	138	147	153	163	168	183	187	192	198	201
ES200-12G	1.85	97.0	116	131	142	152	160	172	179	196	200	206	212	216
	1.8	102	123	140	150	159	167	178	185	200	204	210	216	220
	1.75	106	127	143	153	163	170	181	187	203	208	214	220	224
ES220-12G	1.85	107	128	144	156	167	176	189	197	216	220	226	233	237
	1.8	112	135	154	165	175	183	196	204	224	224	231	238	242
	1.75	116	140	157	169	179	187	199	206	224	228	235	242	246
ES240-12G	1.85	116	139	157	171	182	192	206	214	235	240	247	254	259
	1.8	122	147	168	180	191	200	213	222	240	245	252	259	264
	1.75	127	153	171	184	196	204	217	224	244	249	256	264	269
ES260-12G	1.85	126	151	170	185	197	208	223	232	255	260	268	275	280
	1.8	133	159	183	195	207	217	231	241	260	265	273	281	286
	1.75	137	166	186	199	212	221	235	243	265	270	278	286	291
ES280-12G	1.85	136	162	183	199	213	224	241	250	274	280	288	296	302
	1.8	143	172	197	209	223	233	249	259	280	286	294	302	308
	1.75	148	178	200	215	228	238	253	262	285	291	299	308	313
ES300-12G	1.85	146	174	196	213	228	240	258	268	294	300	309	318	323
	1.8	153	184	211	224	239	250	267	278	300	306	315	324	330
	1.75	159	191	214	230	244	255	271	281	305	311	320	330	336

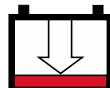
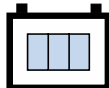
Actual Battery Discharge Data may be +/-5% of figures shown above.



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

Model	End Voltage VPC	Discharge Data Amps @ 25°C												
		Discharge Time In Hours												
		1	2	3	4	5	6	8	10	20	24	48	72	100
ES26-12G	1.85	12.6	7.54	5.66	4.62	3.95	3.47	2.79	2.32	1.27	1.08	0.557	0.382	0.280
	1.8	13.3	7.97	6.08	4.86	4.14	3.61	2.89	2.41	1.30	1.11	0.569	0.390	0.286
	1.75	13.7	8.28	6.19	4.98	4.24	3.68	2.94	2.43	1.32	1.12	0.579	0.397	0.291
ES35-12G	1.85	17.0	10.1	7.62	6.22	5.31	4.67	3.76	3.13	1.72	1.46	0.750	0.515	0.377
	1.8	17.9	10.7	8.19	6.55	5.57	4.86	3.89	3.24	1.75	1.49	0.766	0.525	0.385
	1.75	18.5	11.1	8.33	6.71	5.70	4.96	3.95	3.27	1.78	1.51	0.779	0.534	0.392
ES40-12G	1.85	19.4	11.6	8.70	7.11	6.07	5.33	4.30	3.57	1.96	1.67	0.858	0.588	0.431
	1.8	20.4	12.3	9.36	7.48	6.37	5.56	4.44	3.70	2.00	1.70	0.875	0.600	0.440
	1.75	21.1	12.7	9.5	7.67	6.52	5.67	4.52	3.74	2.03	1.73	0.890	0.610	0.448
ES55-12G	1.85	26.7	15.9	12.0	9.78	8.35	7.33	5.91	4.91	2.70	2.29	1.18	0.809	0.593
	1.8	28.1	16.9	12.9	10.3	8.76	7.64	6.11	5.09	2.75	2.34	1.20	0.825	0.605
	1.75	29.1	17.5	13.1	10.5	8.96	7.79	6.21	5.14	2.80	2.38	1.22	0.839	0.615
ES60-12G	1.85	29.1	17.4	13.1	10.7	9.11	8.00	6.44	5.36	2.94	2.50	1.29	0.882	0.647
	1.8	30.6	18.4	14.0	11.2	9.6	8.33	6.67	5.56	3.00	2.55	1.31	0.900	0.660
	1.75	31.7	19.1	14.3	11.5	9.8	8.50	6.78	5.61	3.05	2.59	1.34	0.916	0.671
ES70-12G	1.85	34.0	20.3	15.2	12.4	10.6	9.33	7.52	6.25	3.43	2.92	1.50	1.03	0.755
	1.8	35.7	21.5	16.4	13.1	11.1	9.72	7.78	6.48	3.50	2.98	1.53	1.05	0.770
	1.75	37.0	22.3	16.7	13.4	11.4	9.92	7.91	6.55	3.56	3.03	1.56	1.07	0.783
ES80-12G	1.85	38.8	23.2	17.4	14.2	12.1	10.7	8.59	7.15	3.92	3.33	1.72	1.18	0.862
	1.8	40.8	24.5	18.7	15.0	12.7	11.1	8.89	7.41	4.00	3.40	1.75	1.20	0.880
	1.75	42.3	25.5	19.0	15.3	13.0	11.3	9.04	7.48	4.07	3.46	1.78	1.22	0.895
ES90-12G	1.85	43.7	26.1	19.6	16.0	13.7	12.0	9.67	8.04	4.41	3.75	1.93	1.32	0.970
	1.8	45.9	27.6	21.1	16.8	14.3	12.5	10.0	8.33	4.50	3.83	1.97	1.35	0.990
	1.75	47.6	28.7	21.4	17.3	14.7	12.8	10.2	8.42	4.58	3.89	2.00	1.37	1.01
ES100-12G	1.85	48.5	29.0	21.8	17.8	15.2	13.3	10.7	8.94	4.90	4.17	2.14	1.47	1.08
	1.8	51.0	30.6	23.4	18.7	15.9	13.9	11.1	9.26	5.00	4.25	2.19	1.50	1.10
	1.75	52.9	31.9	23.8	19.2	16.3	14.2	11.3	9.35	5.09	4.32	2.23	1.53	1.12
ES120-12G	1.85	58.2	34.8	26.1	21.3	18.2	16.0	12.9	10.7	5.88	5.00	2.57	1.76	1.29
	1.8	61.2	36.8	28.1	22.4	19.1	16.7	13.3	11.1	6.00	5.10	2.63	1.80	1.32
	1.75	63.4	38.2	28.6	23.0	19.6	17.0	13.6	11.2	6.10	5.19	2.67	1.83	1.34
ES135-12G	1.85	65.5	39.1	29.4	24.0	20.5	18.0	14.5	12.1	6.62	5.62	2.89	1.98	1.46
	1.8	68.9	41.4	31.6	25.3	21.5	18.8	15.0	12.5	6.75	5.74	2.95	2.03	1.50
	1.75	71.4	43.0	32.1	25.9	22.0	19.1	15.3	12.6	6.87	5.84	3.00	2.06	1.51
ES150-12G	1.85	72.8	43.5	32.6	26.7	22.8	20.0	16.1	13.4	7.35	6.25	3.22	2.21	1.62
	1.8	76.5	46.0	35.1	28.1	23.9	20.8	16.7	13.9	7.50	6.38	3.28	2.25	1.65
	1.75	79.3	47.8	35.7	28.8	24.4	21.3	16.9	14.0	7.63	6.49	3.34	2.29	1.68
ES165-12G	1.85	80.1	47.8	35.9	29.3	25.1	22.0	17.7	14.7	8.09	6.87	3.54	2.43	1.78
	1.8	84.2	50.6	38.6	30.9	26.3	22.9	18.3	15.3	8.25	7.01	3.61	2.48	1.82
	1.75	87.2	52.6	39.3	31.6	26.9	23.4	18.6	15.4	8.39	7.13	3.67	2.52	1.85
ES180-12G	1.85	87.3	52.2	39.2	32.0	27.3	24.0	19.3	16.1	8.82	7.50	3.86	2.65	1.94
	1.8	91.8	55.2	42.1	33.7	28.7	25.0	20.0	16.7	9.00	7.65	3.94	2.70	2.00
	1.75	95.2	57.3	42.8	34.5	29.3	25.5	20.3	16.8	9.16	7.78	4.01	2.75	2.01
ES200-12G	1.85	97.0	58.0	43.5	35.6	30.4	26.7	21.5	17.9	9.80	8.33	4.29	2.94	2.16
	1.8	102	61.3	46.8	37.4	31.9	27.8	22.2	18.5	10.0	8.50	4.38	3.00	2.20
	1.75	106	63.7	47.6	38.3	32.6	28.3	22.6	18.7	10.2	8.65	4.45	3.05	2.24
ES220-12G	1.85	107	63.8	47.9	39.1	33.4	29.3	23.6	19.7	10.8	9.16	4.72	3.23	2.37
	1.8	112	67.4	51.5	41.1	35.0	30.6	24.4	20.4	11.0	9.35	4.81	3.30	2.42
	1.75	116	70.1	52.4	42.2	35.9	31.2	24.9	20.6	11.2	9.51	4.90	3.36	2.46
ES240-12G	1.85	116	69.6	52.2	42.7	36.4	32.0	25.8	21.4	11.8	10.0	5.15	3.53	2.59
	1.8	122	73.6	56.2	44.9	38.2	33.3	26.7	22.2	12.0	10.2	5.25	3.60	2.64
	1.75	127	76.4	57.1	46.0	39.1	34.0	27.1	22.4	12.2	10.4	5.34	3.66	2.69
ES260-12G	1.85	126	75.4	56.6	46.2	39.5	34.7	27.9	23.2	12.7	10.8	5.57	3.82	2.80
	1.8	133	79.7	60.8	48.6	41.4	36.1	28.9	24.1	13.0	11.1	5.69	3.90	2.86
	1.75	137	82.8	61.9	49.8	42.4	36.8	29.4	24.3	13.2	11.2	5.79	3.97	2.91
ES280-12G	1.85	136	81.1	60.9	49.8	42.5	37.3	30.1	25.0	13.7	11.7	6.00	4.12	3.02
	1.8	143	85.8	65.5	52.4	44.6	38.9	31.1	25.9	14.0	11.9	6.13	4.20	3.08
	1.75	148	89.2	66.6	53.7	45.6	39.7	31.6	26.2	14.2	12.1	6.23	4.27	3.13
ES300-12G	1.85	146	86.9	65.3	53.3	45.6	40.0	32.2	26.8	14.7	12.5	6.43	4.41	3.23
	1.8	153	91.9	70.2	56.1	47.8	41.7	33.3	27.8	15.0	12.8	6.56	4.50	3.30
	1.75	159	95.6	71.4	57.5	48.9	42.5	33.9	28.1	15.3	13.0	6.68	4.58	3.36

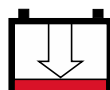
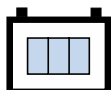
Actual Battery Discharge Data may be +/-5% of figures shown above.



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

Model	End Voltage VPC	Watts Per Cell @ 25°C												
		Discharge Time In Hours												
		1	2	3	4	5	6	8	10	20	24	48	72	100
ES26-12G	1.85	24.6	14.64	11.00	9.03	7.75	6.79	5.51	4.60	2.55	2.17	1.12	0.765	0.561
	1.8	25.8	15.36	11.48	9.44	8.09	7.08	5.71	4.77	2.58	2.19	1.13	0.773	0.567
	1.75	26.7	15.89	11.82	9.65	8.26	7.20	5.78	4.79	2.60	2.21	1.14	0.780	0.572
ES35-12G	1.85	33.1	19.7	14.81	12.15	10.44	9.14	7.42	6.19	3.43	2.92	1.50	1.03	0.755
	1.8	34.7	20.7	15.46	12.70	10.89	9.53	7.68	6.42	3.47	2.95	1.52	1.04	0.763
	1.75	35.9	21.4	15.91	13.00	11.12	9.69	7.78	6.45	3.50	2.98	1.53	1.05	0.770
ES40-12G	1.85	37.9	22.5	16.93	13.89	11.93	10.44	8.48	7.07	3.92	3.33	1.72	1.18	0.863
	1.8	39.7	23.6	17.67	14.52	12.44	10.89	8.78	7.33	3.96	3.37	1.73	1.19	0.872
	1.75	41.0	24.4	18.2	14.85	12.70	11.07	8.89	7.37	4.00	3.40	1.75	1.20	0.880
ES55-12G	1.85	52.0	31.0	23.3	19.10	16.40	14.36	11.66	9.73	5.39	4.59	2.36	1.62	1.19
	1.8	54.6	32.5	24.3	20.0	17.11	14.97	12.07	10.08	5.45	4.63	2.38	1.63	1.20
	1.75	56.4	33.6	25.0	20.4	17.47	15.23	12.22	10.13	5.50	4.68	2.41	1.65	1.21
ES60-12G	1.85	56.8	33.8	25.4	20.8	17.89	15.67	12.72	10.61	5.88	5.00	2.57	1.77	1.29
	1.8	59.6	35.4	26.5	21.8	18.7	16.33	13.17	11.00	5.94	5.05	2.60	1.78	1.31
	1.75	61.6	36.7	27.3	22.3	19.1	16.61	13.33	11.06	6.00	5.10	2.63	1.80	1.32
ES70-12G	1.85	66.2	39.4	29.6	24.3	20.9	18.28	14.84	12.38	6.87	5.84	3.00	2.06	1.51
	1.8	69.5	41.4	30.9	25.4	21.8	19.06	15.36	12.83	6.93	5.89	3.03	2.08	1.53
	1.75	71.8	42.8	31.8	26.0	22.2	19.38	15.56	12.90	7.00	5.95	3.06	2.10	1.54
ES80-12G	1.85	75.7	45.0	33.9	27.8	23.9	20.9	16.96	14.15	7.85	6.67	3.43	2.35	1.73
	1.8	79.4	47.3	35.3	29.0	24.9	21.8	17.56	14.67	7.92	6.73	3.47	2.38	1.74
	1.75	82.1	48.9	36.4	29.7	25.4	22.1	17.78	14.74	8.00	6.80	3.50	2.40	1.76
ES90-12G	1.85	85.2	50.7	38.1	31.3	26.8	23.5	19.08	15.92	8.83	7.50	3.86	2.65	1.94
	1.8	89.3	53.2	39.8	32.7	28.0	24.5	19.8	16.50	8.91	7.58	3.90	2.67	1.96
	1.75	92.3	55.0	40.9	33.4	28.6	24.9	20.0	16.58	9.00	7.65	3.94	2.70	1.98
ES100-12G	1.85	94.6	56.3	42.3	34.7	29.8	26.1	21.2	17.69	9.81	8.34	4.29	2.94	2.16
	1.8	99.3	59.1	44.2	36.3	31.1	27.2	21.9	18.33	9.90	8.42	4.33	2.97	2.18
	1.75	103	61.1	45.5	37.1	31.8	27.7	22.2	18.43	10.00	8.50	4.38	3.00	2.20
ES120-12G	1.85	114	67.6	50.8	41.7	35.8	31.3	25.4	21.2	11.77	10.00	5.15	3.53	2.59
	1.8	119	70.9	53.0	43.6	37.3	32.7	26.3	22.0	11.88	10.10	5.20	3.57	2.61
	1.75	123	73.3	54.6	44.6	38.1	33.2	26.7	22.1	12.00	10.20	5.25	3.60	2.64
ES135-12G	1.85	128	76.0	57.1	46.9	40.3	35.3	28.6	23.9	13.24	11.25	5.79	3.97	2.91
	1.8	134	79.8	59.6	49.0	42.0	36.8	29.6	24.8	13.37	11.36	5.85	4.01	2.94
	1.75	139	82.5	61.4	50.1	42.9	37.4	30.0	24.9	13.50	11.48	5.91	4.05	2.97
ES150-12G	1.85	142	84.4	63.5	52.1	44.7	39.2	31.8	26.5	14.71	12.50	6.44	4.41	3.24
	1.8	149	88.6	66.3	54.4	46.7	40.8	32.9	27.5	14.86	12.63	6.50	4.46	3.27
	1.75	154	91.7	68.2	55.7	47.6	41.5	33.3	27.6	15.00	12.75	6.56	4.50	3.30
ES165-12G	1.85	156	92.9	69.8	57.3	49.2	43.1	35.0	29.2	16.18	13.76	7.08	4.85	3.56
	1.8	164	97.5	72.9	59.9	51.3	44.9	36.2	30.3	16.34	13.89	7.15	4.90	3.60
	1.75	169	101	75.0	61.3	52.4	45.7	36.7	30.4	16.50	14.03	7.22	4.95	3.63
ES180-12G	1.85	170	101	76.2	62.5	53.7	47.0	38.2	31.8	17.65	15.01	7.72	5.30	3.88
	1.8	179	106	79.5	65.3	56.0	49.0	39.5	33.0	17.83	15.15	7.80	5.35	3.92
	1.75	185	110	81.8	66.8	57.2	49.8	40.0	33.2	18.00	15.30	7.88	5.40	3.96
ES200-12G	1.85	189	113	84.6	69.4	59.6	52.2	42.4	35.4	19.62	16.67	8.58	5.88	4.32
	1.8	199	118	88.3	72.6	62.2	54.4	43.9	36.7	19.8	16.84	8.67	5.94	4.36
	1.75	205	122	90.9	74.3	63.5	55.4	44.4	36.9	20.0	17.00	8.75	6.00	4.40
ES220-12G	1.85	208	124	93.1	76.4	65.6	57.4	46.6	38.9	21.6	18.34	9.44	6.47	4.75
	1.8	218	130	97.2	79.9	68.4	59.9	48.3	40.3	21.8	18.52	9.53	6.54	4.79
	1.75	226	134	100	81.7	69.9	60.9	48.9	40.5	22.0	18.70	9.63	6.60	4.84
ES240-12G	1.85	227	135	102	83.3	71.6	62.7	50.9	42.4	23.5	20.0	10.30	7.06	5.18
	1.8	238	142	106	87.1	74.7	65.3	52.7	44.0	23.8	20.2	10.40	7.13	5.23
	1.75	246	147	109	89.1	76.2	66.4	53.3	44.2	24.0	20.4	10.50	7.20	5.28
ES260-12G	1.85	246	146	110	90.3	77.5	67.9	55.1	46.0	25.5	21.7	11.16	7.65	5.61
	1.8	258	154	115	94.4	80.9	70.8	57.1	47.7	25.8	21.9	11.27	7.73	5.67
	1.75	267	159	118	96.5	82.6	72.0	57.8	47.9	26.0	22.1	11.38	7.80	5.72
ES280-12G	1.85	265	158	118	97.2	83.5	73.1	59.4	49.5	27.5	23.3	12.01	8.24	6.04
	1.8	278	165	124	102	87.1	76.2	61.4	51.3	27.7	23.6	12.13	8.32	6.10
	1.75	287	171	127	104	88.9	77.5	62.2	51.6	28.0	23.8	12.25	8.40	6.16
ES300-12G	1.85	284	169	127	104	89.4	78.3	63.6	53.1	29.4	25.0	12.87	8.83	6.47
	1.8	298	177	133	109	93.3	81.7	65.8	55.0	29.7	25.3	13.00	8.91	6.54
	1.75	308	183	136	111	95.3	83.1	66.7	55.3	30.0	25.5	13.13	9.00	6.60

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

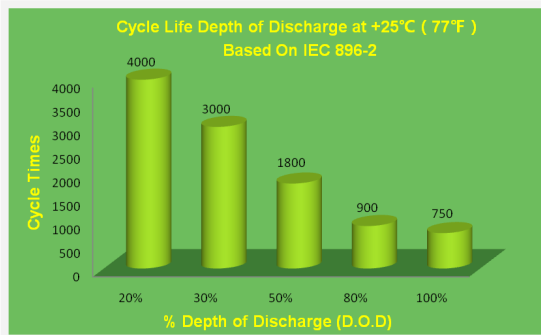


Solar Gel Range VRLA

EverExceed®
power your applications

BATTERY CYCLING ABILITY

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



TYPICAL CYCLE PERFORMANCE

CAPACITY WITHDRAWN	CYCLES
20%	4000
30%	3000
50%	1800
80%	900
100%	750

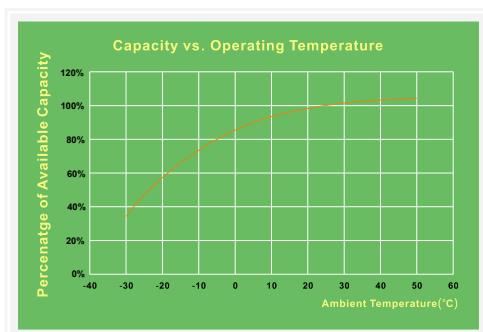
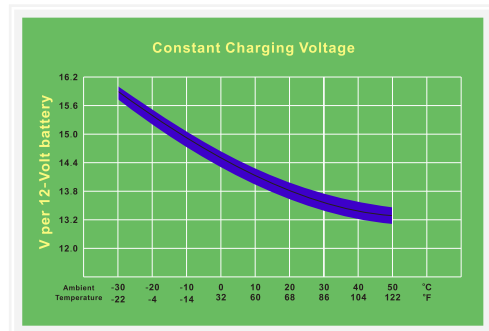
CONSTANT CHARGING VOLTAGE:

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

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

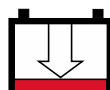
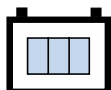
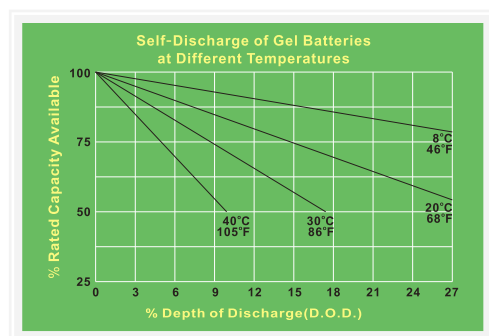
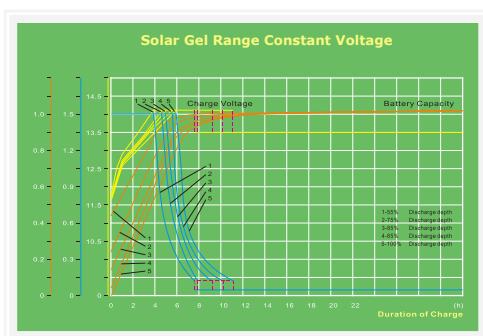
This constant voltage is suitable for continuous charging and cyclic operation.

In a parallel standby (floating) condition it always keeps the battery in a fully charged state; in a cyclic condition, it



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.



EverExceed[®]
power your applications



***Supplied Worldwide by
EverExceed Corporation***

