



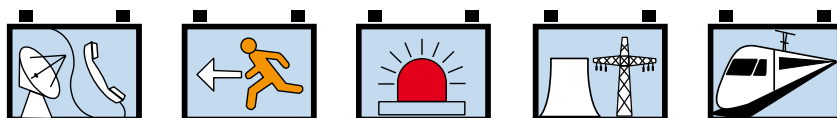
EverExceed[®]
power your applications

V2.4

Solar Gel Range VRLA



»Premium quality for uninterrupted communication«



www.everexceed.com



Solar Gel Range VRLA

THE MOST RELIABLE GEL 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.

Innovative Features

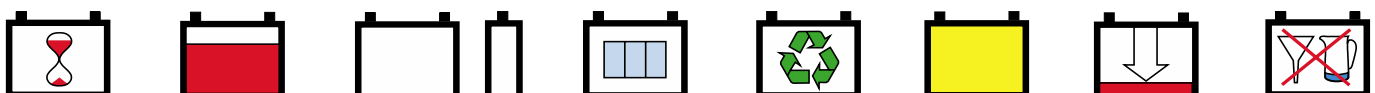
- ◆ Valve regulated lead acid (VRLA), deep cycle design;
- ◆ Sulfuric acid thixotropic gel, electrolyte in solid gel form will not stratify - greatly extend the deep cycle life, Gel powder from Europe leading supplier to ensure the unique performance of gel battery;
- ◆ Highly porous glass micro-fiber separator, the special design increase the high porosity and anti-corrosion and minimum the internal resistance;
- ◆ Virgin Pure Lead material and thick positive plate technology design for maximum service 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.
- ◆ Thick positive plate design and optimized high tin lead calcium plate alloy that ensure plate have excellent anti-corrosion ability;
- ◆ 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 optional;
Charge voltage.....	Cycle 2.35V to 2.40V; Float 2.25V to 2.30V per cell;
Electrolyte.....	Sulfuric acid thixotropic gel;
Vent.....	Self sealing (2 PSI operation).

Applications

- Photovoltaic / Solar · Cathodic protection
- Navigation aids · Telecommunications
- Remote monitoring · Power back up



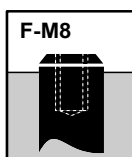
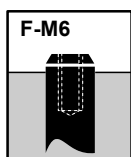
Solar Gel Range Electrical Specifications & Dimensions

Type No.	Volts	Capacity C20 to 1.80VPC @ 25°C	Capacity C100 to 1.80VPC @ 25°C	Terminal Type	Internal Resistance (mΩ)	Weight		Dimensions (mm / inch)					
						kg	lbs	Length		Width		Height	
ES26-12G	12	26.0	28.6	F-M6	11.5	7.8	17.2	166	6.50	175	6.90	126	5.00
ES35-12G	12	35.0	38.5	F-M6	9.50	10.8	23.8	195	7.70	130	5.10	154	6.10
ES40-12G	12	40.0	44.0	F-M6	8.50	13.5	29.7	197	7.80	165	6.50	172	6.80
ES55-12G	12	55.0	60.5	F-M6	6.70	17.2	37.8	230	9.10	137	5.40	210	8.30
ES60-12G	12	60.0	66.0	F-M6	6.50	20.3	44.7	350	13.8	168	6.60	178	7.00
ES70-12G	12	70.0	77.0	F-M6	6.00	21.8	48.0	350	13.8	168	6.60	178	7.00
ES80-12G	12	80.0	88.0	F-M6	5.50	23.0	50.6	259	10.2	168	6.60	215	8.50
ES90-12G	12	90.0	99.0	F-M6	5.00	24.0	52.8	259	10.2	168	6.60	215	8.50
ES100A-12G	12	105	116	F-M8	4.20	28.8	63.4	332	13.1	174	6.90	220	8.70
ES100B-12G	12	100	110	F-M6	4.20	27.5	60.5	305	12.0	168	6.60	215	8.50
ES120A-12G	12	125	139	F-M8	3.40	33.3	73.3	408	16.1	175	6.90	210	8.30
ES120B-12G	12	120	132	F-M8	3.50	31.8	70.0	332	13.1	174	6.90	220	8.70
ES135-12G	12	135	150	F-M8	3.30	36.0	79.2	408	16.1	175	6.90	210	8.30
ES150-12G	12	150	165	F-M8	3.20	40.0	88.0	480	18.9	170	6.70	240	9.50
ES165-12G	12	165	182	F-M8	3.00	43.5	95.7	480	18.9	170	6.70	240	9.50
ES180-12G	12	180	200	F-M8	2.80	51.8	114	530	20.9	210	8.30	220	8.70
ES200A-12G	12	210	231	F-M8	2.50	59.0	130	520	20.5	238	9.40	220	8.70
ES200B-12G	12	200	220	F-M8	2.80	55.0	121	530	20.9	210	8.30	220	8.70
ES230-12G	12	230	253	F-M8	2.40	64.5	142	520	20.5	238	9.40	220	8.70
ES250-12G	12	250	275	F-M8	2.20	67.5	149	520	20.5	269	10.6	210	8.30
ES280-12G	12	280	308	F-M8	2.20	74.5	164	520	20.5	269	10.6	225	8.90
ES300-12G	12	300	330	F-M8	2.00	75.5	166	520	20.5	269	10.6	225	8.90

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).

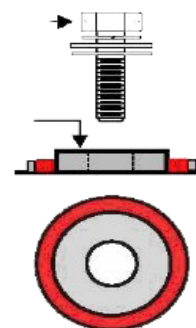
Terminal and torque



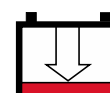
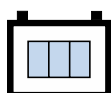
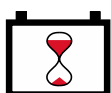
M6 SS Bolt

12mm Dia.

Brass Insert



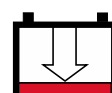
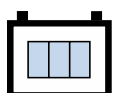
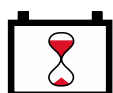
The EveExceed's solar Gel battery excels in cycling applications.
*Dependent upon proper charging and ambient temperatures.



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
ES100A-12G	1.85	50.9	60.9	68.6	74.7	79.7	84.0	90.2	93.9	103	105	108	111	113
	1.8	53.6	64.4	73.7	78.5	83.6	87.5	93.3	97.2	105	107	110	113	116
	1.75	55.5	66.9	75.0	80.5	85.6	89.3	94.9	98.2	107	109	112	116	118
ES100B-12G	1.85	48.5	58.0	65.3	71.1	75.9	80.0	85.9	89.4	98.0	100	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
ES120A-12G	1.85	61.1	73.1	82.2	89.6	95.7	101	108	112	124	126	129	133	135
	1.8	64.3	77.3	88.4	94.3	100	105	112	117	126	128	132	137	139
	1.75	66.6	80.2	90.0	96.6	103	107	113	118	128	131	134	139	141

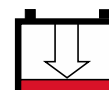
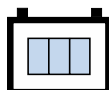
Actual Battery Discharge Data may be +/-5% of figures shown above.



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
ES120B-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
ES200A-12G	1.85	102	122	138	149	160	168	181	188	206	210	216	223	227
	1.8	107	129	147	158	167	175	187	194	210	214	221	227	231
	1.75	111	133	150	161	171	179	190	196	213	218	225	231	235
ES200B-12G	1.85	97.2	116	132	142	152	160	172	179	196	200	206	213	216
	1.8	102	123	140	151	159	167	178	185	200	204	211	216	220
	1.75	106	127	143	153	163	171	181	187	203	208	214	220	224
ES230-12G	1.85	112	134	150	163	175	184	198	206	226	230	236	243	248
	1.8	117	141	161	172	183	191	205	213	230	234	241	249	253
	1.75	121	146	164	177	187	195	208	215	234	238	246	253	257
ES250-12G	1.85	121	145	163	178	189	200	214	223	245	250	258	264	269
	1.8	128	153	176	188	199	209	222	232	250	255	263	270	275
	1.75	132	160	179	191	204	213	226	234	255	260	267	275	280
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

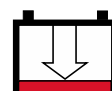
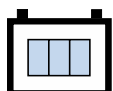
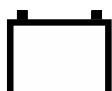
Actual Battery Discharge Data may be +/-5% of figures shown above.



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	0.55	0.38	0.28
	1.8	13.3	7.97	6.08	4.86	4.14	3.61	2.89	2.41	1.30	1.11	0.56	0.39	0.28
	1.75	13.7	8.28	6.19	4.98	4.24	3.68	2.94	2.43	1.32	1.12	0.57	0.39	0.29
ES35-12G	1.85	17.0	10.1	7.62	6.22	5.31	4.67	3.76	3.13	1.72	1.46	0.75	0.51	0.37
	1.8	17.9	10.7	8.19	6.55	5.57	4.86	3.89	3.24	1.75	1.49	0.76	0.52	0.38
	1.75	18.5	11.1	8.33	6.71	5.70	4.96	3.95	3.27	1.78	1.51	0.77	0.53	0.39
ES40-12G	1.85	19.4	11.6	8.70	7.11	6.07	5.33	4.30	3.57	1.96	1.67	0.85	0.58	0.43
	1.8	20.4	12.3	9.36	7.48	6.37	5.56	4.44	3.70	2.00	1.70	0.87	0.60	0.44
	1.75	21.1	12.7	9.5	7.67	6.52	5.67	4.52	3.74	2.03	1.73	0.89	0.61	0.44
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	0.80	0.59
	1.8	28.1	16.9	12.9	10.3	8.76	7.64	6.11	5.09	2.75	2.34	1.20	0.82	0.60
	1.75	29.1	17.5	13.1	10.5	8.96	7.79	6.21	5.14	2.80	2.38	1.22	0.83	0.61
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	0.88	0.64
	1.8	30.6	18.4	14.0	11.2	9.6	8.33	6.67	5.56	3.00	2.55	1.31	0.90	0.66
	1.75	31.7	19.1	14.3	11.5	9.8	8.50	6.78	5.61	3.05	2.59	1.34	0.91	0.67
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	0.75
	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	0.77
	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	0.78
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	0.86
	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	0.88
	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	0.89
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	0.97
	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	0.99
	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
ES100A-12G	1.85	50.9	30.5	22.9	18.7	16.0	14.0	11.2	9.39	5.15	4.38	2.25	1.54	1.13
	1.8	53.6	32.1	24.6	19.6	16.7	14.6	11.7	9.72	5.25	4.46	2.30	1.58	1.16
	1.75	55.5	33.5	25.0	20.2	17.1	14.9	11.9	9.82	5.34	4.54	2.34	1.61	1.18
ES100B-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
ES120A-12G	1.85	61.1	36.5	27.4	22.4	19.1	16.8	13.5	11.2	6.17	5.25	2.70	1.85	1.35
	1.8	64.3	38.6	29.5	23.5	20.1	17.5	14.0	11.7	6.30	5.36	2.76	1.89	1.39
	1.75	66.6	40.1	30.0	24.2	20.6	17.9	14.3	11.8	6.41	5.45	2.80	1.92	1.41

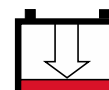
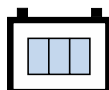
Actual Battery Discharge Data may be +/-5% of figures shown above.



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
ES120B-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
ES200A-12G	1.85	102	60.9	45.7	37.4	31.9	28.0	22.6	18.8	10.3	8.75	4.50	3.09	2.27
	1.8	107	64.4	49.1	39.3	33.5	29.2	23.3	19.4	10.5	8.93	4.60	3.15	2.31
	1.75	111	66.9	50.0	40.2	34.2	29.7	23.7	19.6	10.7	9.08	4.67	3.20	2.35
ES200B-12G	1.85	97.2	58.0	43.6	35.6	30.4	26.7	21.5	17.9	9.82	8.34	4.29	2.94	2.16
	1.8	102	61.4	46.8	37.5	31.9	27.8	22.2	18.5	10.0	8.51	4.38	3.00	2.20
	1.75	106	63.8	47.7	38.3	32.6	28.3	22.6	18.7	10.2	8.65	4.45	3.05	2.24
ES230-12G	1.85	112	66.7	50.1	40.9	34.9	30.6	24.7	20.6	11.3	9.57	4.93	3.38	2.48
	1.8	117	70.4	53.8	42.9	36.6	32.0	25.5	21.3	11.5	9.77	5.03	3.45	2.53
	1.75	121	73.3	54.8	44.1	37.5	32.6	26.0	21.5	11.7	9.94	5.12	3.51	2.57
ES250-12G	1.85	121	72.5	54.4	44.4	38.0	33.4	26.8	22.3	12.2	10.4	5.36	3.67	2.69
	1.8	128	76.6	58.5	46.7	39.8	34.7	27.8	23.2	12.5	10.7	5.47	3.75	2.75
	1.75	132	79.6	59.5	47.9	40.8	35.4	28.3	23.4	12.7	10.8	5.57	3.82	2.80
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

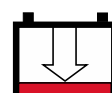
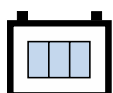
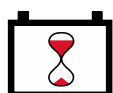
Actual Battery Discharge Data may be +/-5% of figures shown above.



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	14.6	11.0	9.03	7.75	6.79	5.51	4.60	2.55	2.17	1.12	0.76	0.56
	1.8	25.8	15.3	11.4	9.44	8.09	7.08	5.71	4.77	2.58	2.19	1.13	0.77	0.56
	1.75	26.7	15.8	11.8	9.65	8.26	7.20	5.78	4.79	2.60	2.21	1.14	0.78	0.57
ES35-12G	1.85	33.1	19.7	14.8	12.1	10.4	9.14	7.42	6.19	3.43	2.92	1.50	1.03	0.75
	1.8	34.7	20.7	15.4	12.7	10.8	9.53	7.68	6.42	3.47	2.95	1.52	1.04	0.76
	1.75	35.9	21.4	15.9	13.0	11.1	9.69	7.78	6.45	3.50	2.98	1.53	1.05	0.77
ES40-12G	1.85	37.9	22.5	16.9	13.8	11.9	10.4	8.48	7.07	3.92	3.33	1.72	1.18	0.86
	1.8	39.7	23.6	17.6	14.5	12.4	10.8	8.78	7.33	3.96	3.37	1.73	1.19	0.87
	1.75	41.0	24.4	18.2	14.8	12.7	11.0	8.89	7.37	4.00	3.40	1.75	1.20	0.88
ES55-12G	1.85	52.0	31.0	23.3	19.1	16.4	14.3	11.6	9.73	5.39	4.59	2.36	1.62	1.19
	1.8	54.6	32.5	24.3	20.0	17.1	14.9	12.0	10.1	5.45	4.63	2.38	1.63	1.20
	1.75	56.4	33.6	25.0	20.4	17.4	15.2	12.2	10.2	5.50	4.68	2.41	1.65	1.21
ES60-12G	1.85	56.8	33.8	25.4	20.8	17.8	15.6	12.7	10.6	5.88	5.00	2.57	1.77	1.29
	1.8	59.6	35.4	26.5	21.8	18.7	16.3	13.1	11.0	5.94	5.05	2.60	1.78	1.31
	1.75	61.6	36.7	27.3	22.3	19.1	16.6	13.3	11.0	6.00	5.10	2.63	1.80	1.32
ES70-12G	1.85	66.2	39.4	29.6	24.3	20.9	18.2	14.8	12.3	6.87	5.84	3.00	2.06	1.51
	1.8	69.5	41.4	30.9	25.4	21.8	19.0	15.3	12.8	6.93	5.89	3.03	2.08	1.53
	1.75	71.8	42.8	31.8	26.0	22.2	19.3	15.5	12.9	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	16.9	14.1	7.85	6.67	3.43	2.35	1.73
	1.8	79.4	47.3	35.3	29.0	24.9	21.8	17.5	14.6	7.92	6.73	3.47	2.38	1.74
	1.75	82.1	48.9	36.4	29.7	25.4	22.1	17.7	14.7	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	19.0	15.9	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	16.5	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	16.5	9.00	7.65	3.94	2.70	1.98
ES100A-12G	1.85	99.3	59.1	44.4	36.4	31.3	27.4	22.3	18.6	10.3	8.76	4.50	3.09	2.27
	1.8	104	62.1	46.4	38.1	32.7	28.6	23.0	19.2	10.4	8.84	4.55	3.12	2.29
	1.75	108	64.2	47.8	39.0	33.4	29.1	23.3	19.4	10.5	8.93	4.60	3.15	2.31
ES100B-12G	1.85	94.6	56.3	42.3	34.7	29.8	26.1	21.2	17.6	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	18.3	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	18.4	10.0	8.50	4.38	3.00	2.20
ES120A-12G	1.85	120	71.0	53.3	43.8	37.6	32.9	26.7	22.3	12.4	10.5	5.41	3.71	2.72
	1.8	125	74.4	55.7	45.8	39.2	34.3	27.6	23.1	12.5	10.6	5.46	3.75	2.74
	1.75	129	77.0	57.3	46.8	40.0	34.9	28.0	23.2	12.6	10.7	5.51	3.78	2.77

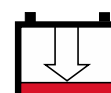
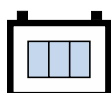
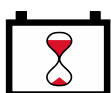
Actual Battery Discharge Data may be +/-5% of figures shown above.



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

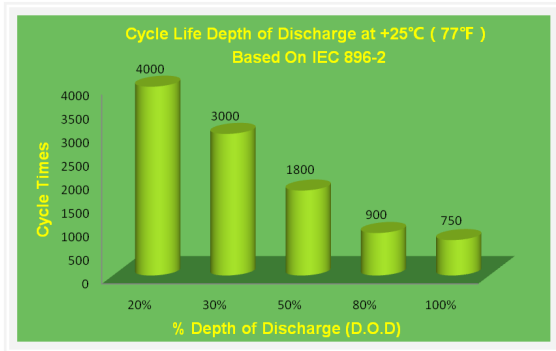
Model	End Voltage VPC	Watts Per Cell @ 25°C												
		Discharge Time In Hours												
		1	2	3	4	5	6	8	10	20	24	48	72	100
ES120B-12G	1.85	114	67.6	50.8	41.7	35.8	31.3	25.4	21.2	11.7	10.0	5.15	3.53	2.59
	1.8	119	70.9	53.0	43.6	37.3	32.7	26.3	22.0	11.8	10.1	5.20	3.57	2.61
	1.75	123	73.3	54.6	44.6	38.1	33.2	26.7	22.1	12.0	10.2	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	13.2	11.2	5.79	3.97	2.91
	1.8	134	79.8	59.6	49.0	42.0	36.8	29.6	24.8	13.3	11.3	5.85	4.01	2.94
	1.75	139	82.5	61.4	50.1	42.9	37.4	30.0	24.9	13.5	11.4	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	14.7	12.5	6.44	4.41	3.24
	1.8	149	88.6	66.3	54.4	46.7	40.8	32.9	27.5	14.8	12.6	6.50	4.46	3.27
	1.75	154	91.7	68.2	55.7	47.6	41.5	33.3	27.6	15.0	12.7	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	16.1	13.7	7.08	4.85	3.56
	1.8	164	97.5	72.9	59.9	51.3	44.9	36.2	30.3	16.3	13.8	7.15	4.90	3.60
	1.75	169	101	75.0	61.3	52.4	45.7	36.7	30.4	16.5	14.0	7.22	4.95	3.63
ES180-12G	1.85	170	101	76.2	62.5	53.7	47.0	38.2	31.8	17.6	15.0	7.72	5.30	3.88
	1.8	179	106	79.5	65.3	56.0	49.0	39.5	33.0	17.8	15.1	7.80	5.35	3.92
	1.75	185	110	81.8	66.8	57.2	49.8	40.0	33.2	18.0	15.3	7.88	5.40	3.96
ES200A-12G	1.85	198	119	88.8	72.9	62.6	54.8	44.5	37.2	20.6	17.5	9.01	6.17	4.54
	1.8	209	124	92.7	76.2	65.3	57.1	46.1	38.5	20.8	17.7	9.10	6.24	4.58
	1.75	215	128	95.4	78.0	66.7	58.2	46.6	38.7	21.0	17.9	9.19	6.30	4.62
ES200B-12G	1.85	189	113	84.6	69.5	59.7	52.2	42.4	35.5	19.6	16.7	8.59	5.88	4.33
	1.8	199	118	88.3	72.6	62.2	54.4	43.9	36.7	19.8	16.9	8.67	5.95	4.36
	1.75	205	122	90.9	74.3	63.6	55.5	44.4	36.9	20.0	17.1	8.76	6.00	4.40
ES230-12G	1.85	217	130	97.3	79.8	68.6	60.0	48.7	40.7	22.6	19.2	9.86	6.76	4.96
	1.8	228	136	102	83.5	71.5	62.6	50.5	42.1	22.8	19.4	10.0	6.83	5.01
	1.75	236	140	105	85.4	73.0	63.6	51.1	42.3	23.0	19.5	10.1	6.90	5.06
ES250-12G	1.85	237	140	106	86.8	74.5	65.3	53.0	44.2	24.5	20.9	10.7	7.36	5.39
	1.8	248	148	111	90.8	77.8	68.1	54.9	45.9	24.8	21.1	10.8	7.43	5.45
	1.75	257	153	113	92.8	79.4	69.2	55.6	46.1	25.0	21.3	10.9	7.50	5.50
ES280-12G	1.85	265	158	118	97.2	83.5	73.1	59.4	49.5	27.5	23.3	12.0	8.24	6.04
	1.8	278	165	124	102	87.1	76.2	61.4	51.3	27.7	23.6	12.1	8.32	6.10
	1.75	287	171	127	104	88.9	77.5	62.2	51.6	28.0	23.8	12.2	8.40	6.16
ES300-12G	1.85	284	169	127	104	89.4	78.3	63.6	53.1	29.4	25.0	12.8	8.83	6.47
	1.8	298	177	133	109	93.3	81.7	65.8	55.0	29.7	25.3	13.0	8.91	6.54
	1.75	308	183	136	111	95.3	83.1	66.7	55.3	30.0	25.5	13.1	9.00	6.60

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



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

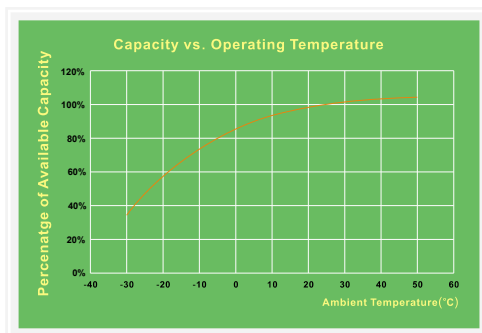
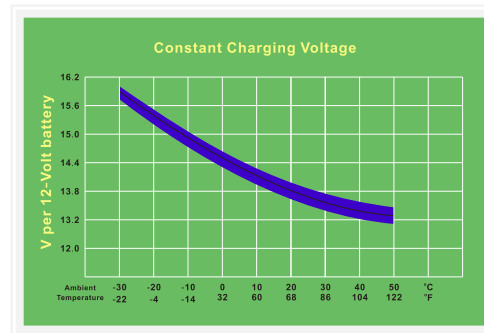
CONSTANT CHARGING VOLTAGE:

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

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

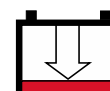
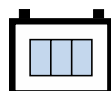
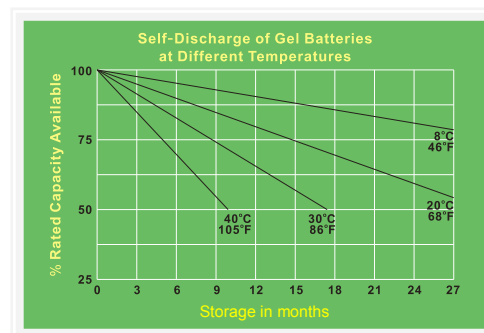
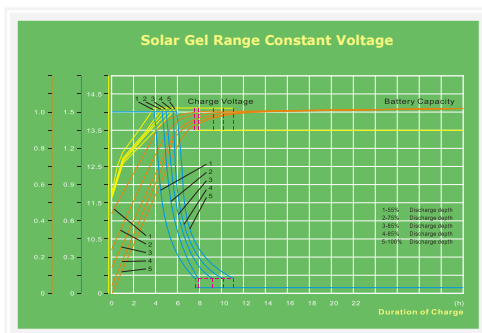
This constant voltage is suitable for continuous charging and cyclic operation.

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.



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