

BES SERIES SOLAR GEL BATTERIES

- Utilising the latest technology
- Spill proof and leak proof
- Valve regulated Max internal pressure 2.5 psi
- Maintenance free, sealed construction
- Multi-cell container
- ABS Case and cover - V0 on request
- Low self discharge
- Gelled thixotropic electrolyte
- Good recovery from deep discharge
- No equalisation charge necessary
- Good tolerance to unpredictable charging regimes
- Resistant to freezing
- Wide range of operating temperatures



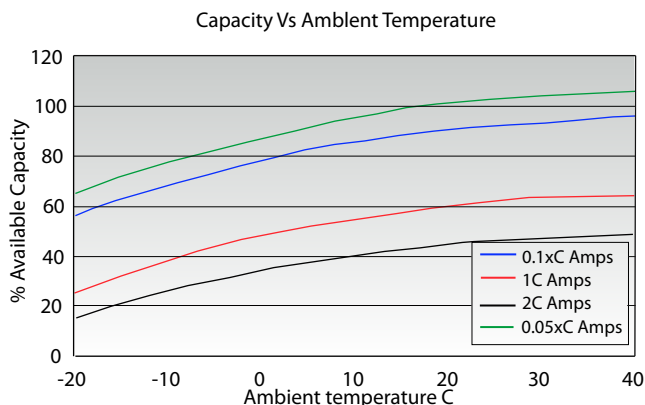
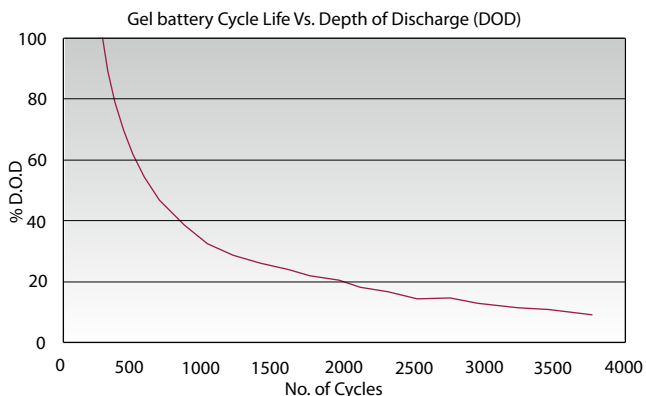
Construction - Gelled electrolyte is introduced to the cell by means of custom-built vacuum filling machines; vacuum cycling is utilized after the filling process. The battery design and construction negates the need for electrolyte addition and the battery remains maintenance free throughout its design life.

Nominal Voltage	6 & 12V
Operating Temperature	-20°C to 50°C
Grid alloy	Calcium/Tin lead alloy
Plates	Flat Pasted
Separator	Gel - Microporous Duroplastic
Active material	Pure lead
Case	ABS (V0 on request)
Electrolyte	Sulphuric acid Analytical grade purity
Venting Valve	1.5 to 2 psi (10.5 = 14 KPa) release pressure. Resealing at 1 psi (7 Kpa)
Torque setting	5-7 Nm

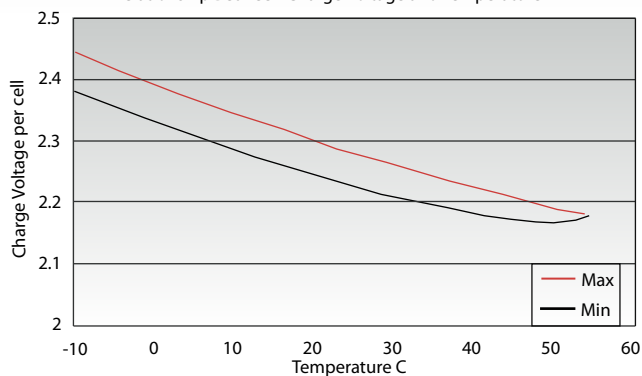
Applications

- Signage and signalling for sea, air, road and railway transport systems
- Remote communication stations
- Hybrid power supplies
- Street and garden lighting
- Cellular transmission and repeater stations

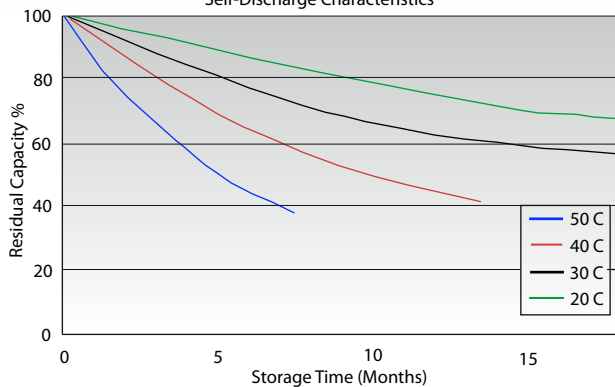
Features



Relationship Between Charge Voltage and Temperature



Self-Discharge Characteristics



Battery No.	Volts	Capacity - Watt Hour Per Cell to 1.8 VPC @20°C							
		100Hr	72Hr	48Hr	20Hr	10Hr	5Hr	3Hr	1Hr
BES120075	12	16.6	15.7	15.2	14.5	12.1	10.9	10.3	8.0
BES120120	12	22.0	20.8	20.2	19.3	16.6	14.7	13.9	13.2
BES120180	12	35.0	33.1	32.1	30.7	27.1	24.2	21.4	16.9
BES120260	12	56.2	53.1	51.4	49.1	42.9	37.7	33.7	28.7
BES120330	12	69.9	66.0	64.0	61.1	52.7	45.1	40.6	34.3
BES120440	12	87.6	82.8	80.2	76.6	66.9	58.6	55.3	48.5
BES120550	12	113	106	103	98.5	84.8	75.6	70.1	59.6
BES120700	12	137	129	125	120	104	94.0	89.2	78.7
BES120800	12	162	153	148	142	122	111	104	92.3
BES121000	12	195	185	179	171	152	133	120	106
BES121100	12	227	214	208	198	173	152	142	118
BES121200	12	247	233	226	216	193	169	161	135
BES121350	12	297	280	272	259	226	197	185	164
BES121500	12	308	291	282	269	238	209	196	172
BES121600	12	339	321	311	297	271	240	223	192
BES122000	12	411	388	376	360	318	286	270	232
BES122300	12	474	448	434	415	373	327	298	249
BES06180	6	382	361	350	334	302	275	252	218
BES06225	6	474	448	434	415	371	325	297	247

Battery No.	Volts	100 Hr	Capacity - Ampere Hour to 1.8 VPC @20°C							Dimensions & Weight mm			
			72Hr	48Hr	20Hr	10Hr	5Hr	3Hr	2Hr	L	W	H(total)	Kg
BES120075	12	8.3	7.9	7.7	7.4	6.2	5.6	5.4	4.2	150	63	99	2.5
BES120120	12	11.0	10.4	10.2	9.8	8.5	7.6	7.2	6.9	152	99	99	4.0
BES120180	12	17.6	16.6	16.2	15.6	13.9	12.5	11.1	8.8	181	76	167	5.4
BES120260	12	28.1	26.6	25.9	25.0	22.0	19.5	17.5	15.0	168	178	124	8.0
BES120330	12	35.0	33.1	32.2	31.1	27.0	23.3	21.1	17.9	196	131	160	10.3
BES120440	12	43.9	41.5	40.4	39.0	34.3	30.3	28.7	25.3	198	167	157	13.0
BES120550	12	56.4	53.4	51.9	50.1	43.5	39.1	36.4	31.1	229	138	213	18.4
BES120700	12	68.6	65.0	63.2	61.0	53.3	48.6	46.3	41.1	349	168	175	21.0
BES120800	12	81.0	76.7	74.6	72.0	62.6	57.6	53.9	48.2	259	168	211	25.1
BES1201000	12	97.9	92.7	90.1	87.0	78.0	68.8	62.2	55.2	306	168	211	29.3
BES121100	12	114	108	105	101	88.5	78.6	73.5	61.8	329	173	209	32.2
BES121200	12	124	117	114	110	99.0	87.3	83.5	70.7	409	177	225	36.0
BES121350	12	149	141	137	132	116	102	96.2	85.6	342	173	282	43.7
BES121500	12	154	146	142	137	122	108	102	90.0	483	170	242	45.5
BES121600	12	170	161	156	151	139	124	116	100	530	209	214	53.7
BES122000	12	206	195	190	183	163	148	140	121	522	242	220	63.4
BES122300	12	237	225	219	211	191	169	155	130	521	270	205	69.5
BES061800	6	191	181	176	170	155	142	131	114	260	181	246	29.6
BES062250	6	237	225	219	211	190	168	154	129	244	188	275	33.8

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