



PowerSafe[®]

SBS Performance Specifications

Constant Current Discharge Performance Data

Discharge Currents (Amperes) to 1.75Vpc at 77°F (25°C)

Battery Type	Standby Time (Minutes)			Standby Time (Hours)									
	15	30	45	1	2	3	4	5	6	7	8	10	20
SBS 8	18.0	10.4	7.5	5.8	3.2	2.2	1.7	1.4	1.2	1.1	0.9	0.8	0.4
SBS 15	32.8	19.5	14.1	11.2	6.2	4.4	3.4	2.8	2.4	2.0	1.8	1.5	0.8
SBS 30	61.1	36.1	26.1	20.6	11.4	8.0	6.2	5.1	4.3	3.8	3.3	2.8	1.5
SBS 40	83.4	50.7	37.0	29.3	16.3	11.4	8.9	7.3	6.2	5.4	4.7	3.9	2.1
SBS 60	108.9	66.7	48.9	39.0	22.0	15.5	12.1	9.9	8.4	7.3	6.5	5.3	2.8
SBS 110	209.2	135.1	101.4	81.9	47.6	34.0	26.7	22.0	18.8	16.4	14.6	12.0	6.5
SBS 130	246.1	156.2	116.8	94.2	54.7	39.2	30.7	25.3	21.6	18.9	16.7	13.7	7.4
SBS 300	602.7	384.5	283.7	227.3	129.3	90.7	71.0	58.6	50.0	43.7	39.0	32.2	17.7
SBS 390	647.4	427.3	323.3	261.6	152.1	108.8	84.9	69.8	59.2	51.5	45.7	37.0	19.9
SBS J13	27.5	16.5	11.9	9.4	5.2	3.7	2.9	2.3	2.0	1.7	1.5	1.2	0.6
SBS J16	34.5	20.9	15.2	12.0	6.8	4.8	3.7	3.0	2.6	2.2	2.0	1.6	0.8
SBS J30	63.3	37.9	27.3	21.5	11.8	8.2	6.3	5.2	4.4	3.8	3.4	2.7	1.5
SBS J40	89.3	54.4	39.6	31.3	17.4	12.2	9.4	7.7	6.5	5.7	5.0	4.1	2.2
SBS J70	151.1	91.6	66.3	52.2	28.6	19.8	15.2	12.4	10.4	9.0	7.9	6.4	3.4
SBS B8(F)	68.8	40.2	29.2	23.1	13.1	9.2	7.2	5.9	5.0	4.4	3.9	3.2	1.7
SBS B10(F)	79.8	47.6	34.5	27.2	15.3	10.9	8.5	7.1	6.1	5.4	4.8	4.0	2.2
SBS B14(F)	122.8	76.1	56.4	45.1	25.7	18.2	14.3	11.8	10.1	8.8	7.8	6.4	3.5
SBS C11(F)	172.6	109.3	80.9	64.7	37.0	26.3	20.5	17.0	14.5	12.8	11.4	9.5	5.3
SBS 100(F)	195.9	126.1	94.2	75.4	43.1	30.5	23.7	19.4	16.5	14.4	12.8	10.5	5.8
SBS 112F	196.3	128.4	97.2	78.9	46.1	33.0	25.8	21.3	18.1	15.8	14.0	11.4	5.9
SBS 145(F)	262.0	164.8	122.1	98.1	56.4	40.1	32.0	26.7	23.1	20.3	18.2	15.0	7.7
SBS 165F	303.0	195.0	146.0	120.0	68.5	48.5	37.8	31.0	26.9	23.5	20.8	17.0	9.5
SBS 170F	293.7	199.2	152.4	124.0	71.7	51.0	39.6	32.5	27.7	24.2	21.5	17.7	9.6
SBS 190F	332.7	222.8	169.3	137.4	79.9	57.1	44.5	36.6	31.1	27.2	24.1	19.8	10.7

Discharge Currents (Amperes) to 1.80Vpc at 77°F (25°C)

Battery Type	Standby Time (Minutes)			Standby Time (Hours)									
	15	30	45	1	2	3	4	5	6	7	8	10	20
SBS 8	17.5	10.2	7.3	5.7	3.2	2.2	1.7	1.4	1.2	1.0	0.9	0.8	0.4
SBS 15	32.0	19.2	13.9	11.0	6.1	4.3	3.4	2.7	2.3	2.0	1.8	1.4	0.8
SBS 30	59.4	35.5	25.7	20.3	11.2	7.9	6.1	5.0	4.3	3.7	3.3	2.7	1.5
SBS 40	80.8	49.7	36.3	28.8	16.1	11.3	8.7	7.2	6.1	5.3	4.7	3.8	2.1
SBS 60	104.8	65.2	48.0	38.3	21.7	15.3	11.9	9.8	8.3	7.2	6.4	5.2	2.8
SBS 110	198.6	130.6	98.7	79.9	46.7	33.5	26.3	21.7	18.5	16.2	14.4	11.8	6.4
SBS 130	234.0	150.7	113.4	91.6	53.6	38.5	30.2	25.0	21.3	18.6	16.5	13.5	7.3
SBS 300	561.6	363.2	268.3	216.1	123.3	87.3	68.6	56.9	48.8	42.8	38.3	31.8	17.7
SBS 390	615.6	412.9	314.3	255.0	149.1	106.9	83.6	68.7	58.4	50.8	45.1	36.6	19.7
SBS J13	26.6	16.1	11.7	9.3	5.2	3.6	2.8	2.3	1.9	1.7	1.5	1.2	0.6
SBS J16	33.2	20.3	14.8	11.8	6.6	4.7	3.6	3.0	2.5	2.2	1.9	1.6	0.8
SBS J30	61.0	36.9	26.7	21.1	11.6	8.1	6.3	5.1	4.3	3.8	3.3	2.7	1.4
SBS J40	85.4	52.7	38.6	30.7	17.1	12.0	9.3	7.6	6.4	5.6	4.9	4.0	2.1
SBS J70	143.0	88.2	64.3	50.9	28.1	19.5	15.0	12.2	10.3	8.9	7.8	6.3	3.3
SBS B8(F)	67.7	39.5	28.5	22.6	12.9	9.1	7.1	5.9	5.0	4.3	3.8	3.1	1.7
SBS B10(F)	77.4	47.0	34.0	26.8	15.2	10.7	8.4	7.0	6.0	5.3	4.8	4.0	2.2
SBS B14(F)	115.4	72.7	54.3	43.7	25.1	18.0	14.1	11.7	10.0	8.8	7.8	6.4	3.4
SBS C11(F)	163.0	105.0	78.5	63.1	36.5	26.0	20.4	16.9	14.4	12.7	11.4	9.4	5.3
SBS 100(F)	181.4	118.9	89.9	72.5	41.9	29.9	23.2	19.1	16.2	14.1	12.6	10.4	5.7
SBS 112F	182.1	121.7	93.1	76.1	45.0	32.3	25.4	20.9	17.8	15.5	13.8	11.2	5.8
SBS 145F	244.9	158.2	118.3	95.5	55.1	39.4	31.4	26.2	22.6	19.9	17.8	14.6	7.5
SBS 165F	283.0	186.0	141.0	116.0	67.1	47.6	37.1	30.5	26.5	23.1	20.5	16.8	9.0
SBS 170F	266.2	187.8	145.7	119.4	69.9	49.9	38.9	32.0	27.2	23.8	21.2	17.4	9.4
SBS 190F	304.6	209.8	161.6	132.2	77.9	56.0	43.8	36.0	30.7	26.8	23.8	19.5	10.6

Constant Current Discharge Performance Data continued

Discharge Currents (Amperes) to 1.85Vpc at 77°F (25°C)

Battery Type	Standby Time (Minutes)			Standby Time (Hours)									
	15	30	45	1	2	3	4	5	6	7	8	10	20
SBS 8	16.8	9.9	7.2	5.6	3.1	2.1	1.7	1.4	1.2	1.0	0.9	0.7	0.4
SBS 15	30.8	18.7	13.6	10.7	6.0	4.2	3.3	2.7	2.3	2.0	1.7	1.4	0.7
SBS 30	57.1	34.5	25.0	19.8	10.9	7.7	5.9	4.9	4.1	3.6	3.2	2.6	1.4
SBS 40	76.9	48.0	35.2	28.1	15.6	11.0	8.5	7.0	5.9	5.1	4.5	3.7	2.0
SBS 60	98.6	62.4	46.3	36.9	21.1	14.9	11.6	9.5	8.1	7.0	6.2	5.1	2.7
SBS 110	186.4	125.1	94.7	76.9	45.4	32.5	25.5	21.2	18.1	15.8	14.0	11.5	6.3
SBS 130	220.4	144.1	108.2	87.7	51.7	37.4	29.3	24.2	20.7	18.1	16.1	13.2	7.1
SBS 300	512.7	325.2	243.1	196.3	113.6	81.5	64.7	53.9	46.4	40.9	36.8	30.8	17.6
SBS 390	573.5	394.0	300.2	244.4	145.2	103.6	80.9	67.0	57.0	49.5	44.0	35.8	19.6
SBS J13	25.2	15.5	11.4	9.0	5.0	3.5	2.7	2.2	1.9	1.6	1.5	1.2	0.6
SBS J16	31.4	19.6	14.3	11.4	6.4	4.5	3.5	2.9	2.4	2.1	1.9	1.5	0.8
SBS J30	57.6	35.6	25.9	20.4	11.3	7.9	6.1	5.0	4.2	3.6	3.2	2.6	1.4
SBS J40	80.1	50.4	37.3	29.5	16.6	11.7	9.0	7.4	6.2	5.4	4.8	3.9	2.1
SBS J70	133.3	83.5	61.4	48.9	27.3	19.0	14.6	11.9	10.0	8.6	7.6	6.2	3.2
SBS B8(F)	66.8	38.8	28.0	22.0	12.5	8.9	7.0	5.8	4.9	4.3	3.8	3.1	1.6
SBS B10(F)	73.7	45.9	33.1	26.1	14.7	10.4	8.2	6.8	5.8	5.2	4.7	3.9	2.2
SBS B14(F)	106.5	68.2	51.4	41.5	24.3	17.4	13.8	11.5	9.8	8.6	7.7	6.3	3.4
SBS C11(F)	151.8	99.4	74.8	60.5	35.5	25.7	20.3	16.7	14.3	12.6	11.2	9.3	5.2
SBS 100(F)	164.3	110.6	84.0	67.9	40.2	28.8	22.6	18.6	15.8	13.8	12.2	10.1	5.6
SBS 112F	164.6	113.0	87.4	71.6	43.2	31.2	24.5	20.2	17.2	15.0	13.3	10.8	5.6
SBS 145F	224.0	148.0	112.4	91.3	52.9	38.3	30.5	25.4	21.9	19.3	17.2	14.1	7.3
SBS 165F	261.0	176.0	135.0	112.0	65.3	46.6	36.4	29.9	26.0	22.7	20.1	16.5	8.0
SBS 170F	246.6	175.0	137.9	113.3	67.2	48.1	37.6	30.9	26.3	22.9	20.4	16.7	9.1
SBS 190F	275.2	194.2	151.8	124.7	74.9	54.3	42.4	35.0	29.9	26.1	23.2	19.0	10.3

Constant Power Discharge Performance Data

Discharge Power (Watts per Cell) to 1.75Vpc at 77°F (25°C)

Battery Type	Standby Time (Minutes)			Standby Time (Hours)									
	15	30	45	1	2	3	4	5	6	7	8	10	20
SBS 8	34	20	14	11	6.2	4.3	3.4	2.8	2.3	2.0	1.8	1.5	0.8
SBS 15	62	37	27	21	12	8.5	6.6	5.4	4.6	4.0	3.5	2.9	1.5
SBS 30	116	69	50	40	22	15	12	10	8.4	7.3	6.5	5.3	2.9
SBS 40	157	96	71	56	32	22	17	14	12	10	9.2	7.5	4.1
SBS 60	203	126	93	74	42	30	23	19	16	14	13	10	5.5
SBS 110	385	253	191	155	91	65	51	42	36	32	28	23	13
SBS 130	456	293	221	179	105	75	59	49	42	36	32	27	14
SBS 300	1109	719	534	430	247	174	136	113	97	84	75	62	35
SBS 390	1185	797	608	495	290	208	163	134	114	99	88	72	39
SBS J13	52	31	23	18	10	7.1	5.5	4.5	3.8	3.3	2.9	2.4	1.3
SBS J16	65	40	29	23	13	9.2	7.2	5.9	5.0	4.3	3.8	3.1	1.6
SBS J30	119	72	52	41	23	16	12	10	8.5	7.4	6.5	5.3	2.8
SBS J40	166	103	76	60	34	24	18	15	13	11	10	7.9	4.2
SBS J70	281	173	126	100	55	38	29	24	20	18	15	13	6.5
SBS B8(F)	132	77	56	44	25	18	14	11	10	8.5	7.5	6.2	3.3
SBS B10(F)	150	91	66	52	30	21	16	14	12	10	9.2	7.7	4.3
SBS B14(F)	229	145	108	87	50	36	28	23	20	17	16	13	6.9
SBS C11(F)	318	205	153	123	71	51	40	33	28	25	22	18	10
SBS 100(F)	358	235	177	143	82	59	46	37	32	28	25	20	11
SBS 112F	359	239	183	149	88	64	50	41	35	31	27	22	12
SBS 145F	483	309	231	186	108	77	61	51	44	39	35	29	15
SBS 165F	569	374	283	234	136	97	76	62	54	47	42	34	18
SBS 170F	535	372	289	237	139	100	78	64	54	48	42	35	19
SBS 190F	606	418	323	264	157	113	88	72	62	54	48	39	21

Constant Power Discharge Performance Data continued

Discharge Power (Watts per Cell) to 1.80Vpc at 77°F (25°C)

Battery Type	Standby Time (Minutes)			Standby Time (Hours)									
	15	30	45	1	2	3	4	5	6	7	8	10	20
SBS 8	34	20	14	11	6.2	4.3	3.3	2.7	2.3	2.0	1.8	1.5	0.8
SBS 15	61	37	27	21	12	8.4	6.5	5.3	4.5	3.9	3.5	2.8	1.5
SBS 30	113	68	50	39	22	15	12	10	8.3	7.2	6.4	5.3	2.9
SBS 40	153	95	70	56	31	22	17	14	12	10	9.1	7.5	4.1
SBS 60	198	124	92	74	42	30	23	19	16	14	12	10	5.5
SBS J13	50	31	23	18	10	7.1	5.5	4.5	3.8	3.3	2.9	2.4	1.2
SBS J16	63	39	29	23	13	9.1	7.0	5.8	4.9	4.3	3.8	3.1	1.6
SBS J30	115	71	52	41	23	16	12	10	8.4	7.3	6.5	5.3	2.8
SBS J40	161	101	74	59	33	23	18	15	13	11	10	7.8	4.1
SBS J70	269	168	123	98	55	38	29	24	20	17	15	12	6.5
SBS 110	371	247	188	153	90	65	51	42	36	31	28	23	12
SBS 130	439	286	216	175	103	74	58	48	41	36	32	26	14
SBS 300	1048	688	510	411	238	168	133	110	95	83	74	62	35
SBS 390	1144	779	597	486	286	206	161	133	113	98	87	71	38
SBS B8(F)	131	76	55	44	25	18	14	11	10	8.5	7.5	6.1	3.3
SBS B10(F)	147	90	65	52	29	21	16	14	12	10	9.2	7.7	4.3
SBS B14(F)	219	140	105	85	49	35	28	23	20	17	15	13	6.9
SBS C11(F)	305	199	150	121	71	50	40	33	28	25	22	18	10
SBS 100(F)	337	224	171	138	81	58	45	37	31	27	24	20	11
SBS 112F	338	229	177	145	87	63	49	41	35	30	27	22	11
SBS 145F	457	300	225	182	107	76	60	50	44	38	34	28	15
SBS 165F	537	361	275	228	133	95	74	61	53	46	41	34	18
SBS 170F	493	355	279	230	137	98	77	63	54	47	42	34	19
SBS 190F	566	399	311	257	154	111	87	72	61	53	47	39	21

Discharge Power (Watts per Cell) to 1.85Vpc at 77°F (25°C)

Battery Type	Standby Time (Minutes)			Standby Time (Hours)									
	15	30	45	1	2	3	4	5	6	7	8	10	20
SBS 8	32	19	14	11	6.0	4.2	3.3	2.7	2.3	2.0	1.8	1.5	0.8
SBS 15	59	36	27	21	12	8.2	6.4	5.2	4.4	3.9	3.4	2.8	1.5
SBS 30	110	67	49	39	21	15	12	10	8.1	7.1	6.3	5.2	2.8
SBS 40	148	93	69	55	31	21	17	14	12	10	8.9	7.3	4.0
SBS 60	188	120	89	71	41	29	23	19	16	14	12	10	5.3
SBS J13	48	30	22	17	10	6.9	5.4	4.4	3.7	3.2	2.9	2.3	1.2
SBS J16	60	38	28	22	12	8.7	6.8	5.6	4.7	4.1	3.6	3.0	1.6
SBS J30	110	69	50	40	22	15	12	10	8.2	7.1	6.3	5.1	2.7
SBS J40	153	98	72	57	32	23	18	14	12	11	9.4	7.6	4.0
SBS J70	253	161	119	95	53	37	29	23	20	17	15	12	6.3
SBS 110	353	239	183	149	88	63	50	41	35	31	27	23	12
SBS 130	418	275	208	170	100	73	57	47	40	35	31	26	14
SBS 300	976	625	468	379	221	159	126	105	90	80	72	60	34
SBS 390	1085	749	575	472	279	200	157	130	112	96	85	70	38
SBS B8(F)	129	76	54	43	24	17	14	11	10	8.4	7.4	6.1	3.2
SBS B10(F)	142	89	64	51	29	20	16	13	11	10	9.0	7.5	4.2
SBS B14(F)	205	133	101	82	48	35	27	23	20	17	15	13	6.9
SBS C11(F)	288	190	144	117	69	50	39	33	28	25	22	18	10
SBS 100(F)	311	210	161	131	78	56	44	36	31	27	24	20	11
SBS 112F	312	215	167	138	84	61	48	40	34	29	26	21	11
SBS 145F	425	283	216	176	103	74	59	49	43	37	33	27	14
SBS 165F	501	344	265	222	130	93	73	60	52	46	41	33	18
SBS 170F	469	337	268	221	132	95	74	61	52	46	40	33	18
SBS 190F	522	375	296	246	149	108	85	70	60	52	46	38	21



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