

# EnerSys®

Power/Full Solutions



## PowerSafe® SBS

# Performance Data

# Constant Current Discharge Performance Data



## Discharge Currents (Amperes) to 1.85Vpc at 20°C

Battery Type	Minutes									Hours										
	5	10	15	20	25	30	35	40	45	1	2	3	4	5	6	7	8	9	10	20
SBS 8	33.6	21.7	16.3	13.2	11.1	9.61	8.49	7.62	6.92	5.44	3.01	2.11	1.63	1.34	1.14	1.00	0.89	0.80	0.73	0.40
SBS 15	59.3	39.3	30.0	24.5	20.8	18.1	16.1	14.5	13.2	10.5	5.83	4.09	3.17	2.59	2.20	1.91	1.69	1.52	1.38	0.73
SBS 30	110	73.1	55.7	45.4	38.2	33.3	29.6	26.6	24.3	19.3	10.8	7.56	5.85	4.79	4.07	3.53	3.13	2.81	2.61	1.43
SBS HB30	110	73.1	55.7	45.4	38.2	33.3	29.6	26.6	24.3	19.3	10.8	7.56	5.85	4.79	4.07	3.53	3.13	2.81	2.61	1.43
SBS 40	139	96.5	75.3	62.2	53.3	46.7	41.7	37.6	34.4	27.4	15.4	10.8	8.33	6.81	5.77	5.01	4.52	3.97	3.72	2.04
SBS 60	173	123	97.0	80.7	68.7	60.5	54.2	49.1	45.0	36.1	20.6	14.6	11.4	9.34	7.94	6.91	6.13	5.50	5.00	2.68
SBS 110	290	223	183	156	137	122	110	101	92.9	75.7	44.4	31.9	25.1	20.7	17.7	15.5	13.8	12.4	11.4	6.19
SBS 130	370	268	215	181	157	140	126	115	106	86.3	50.8	36.6	28.8	23.8	20.3	17.8	15.8	14.3	13.0	6.94
SBS 300	826	622	500	413	357	310	282	255	239	187	109	78.1	62.0	52.0	45.3	40.3	36.1	32.8	30.6	17.2
SBS 390	866	683	567	488	429	385	349	319	295	241	142	102	79.7	65.8	55.9	48.7	43.5	39.0	35.7	19.0
SBS J13	47.2	31.9	24.6	20.2	17.2	15.1	13.4	12.1	11.0	8.79	4.92	3.46	2.68	2.19	1.85	1.61	1.42	1.28	1.16	0.61
SBS J16	57.4	39.6	30.7	25.4	21.7	19.0	16.9	15.3	13.9	11.1	6.20	4.34	3.35	2.73	2.31	2.00	1.77	1.59	1.44	0.75
SBS J30	105	72.8	56.4	46.3	39.5	34.5	30.6	27.6	25.1	19.9	11.0	7.67	5.92	4.83	4.09	3.55	3.14	2.82	2.56	1.36
SBS J40	142	100	78.5	65.1	55.9	49.1	43.8	39.6	36.2	28.9	16.3	11.4	8.84	7.22	6.12	5.31	4.70	4.21	3.82	2.01
SBS J70	235	166	130	108	92.8	81.5	72.7	65.8	60.1	47.8	26.7	18.6	14.4	11.7	9.87	8.54	7.53	6.74	6.10	3.16
SBS B8	146	83.9	61.4	49.3	41.6	36.3	32.3	29.2	26.6	21.4	12.3	8.80	6.87	5.64	4.78	4.14	3.75	3.35	3.02	1.53
SBS B8F	146	83.9	61.4	49.3	41.6	36.3	32.3	29.2	26.6	21.4	12.3	8.80	6.87	5.64	4.78	4.14	3.75	3.35	3.02	1.53
SBS B10	129	92.7	72.6	59.9	51.0	44.5	39.5	35.5	32.3	25.5	13.9	9.66	7.45	6.09	5.17	4.51	4.13	3.91	3.74	2.10
SBS B10F	129	92.7	72.6	59.9	51.0	44.5	39.5	35.5	32.3	25.5	13.9	9.66	7.45	6.09	5.17	4.51	4.13	3.91	3.74	2.10

## Discharge Currents (Amperes) to 1.80Vpc at 20°C

Battery Type	Minutes									Hours										
	5	10	15	20	25	30	35	40	45	1	2	3	4	5	6	7	8	9	10	20
SBS 8	35.5	22.5	16.8	13.5	11.3	9.81	8.66	7.76	7.05	5.54	3.05	2.13	1.66	1.36	1.16	1.01	0.90	0.81	0.74	0.41
SBS 15	62.8	40.6	30.8	25.0	21.2	18.4	16.3	14.7	13.4	10.6	5.91	4.15	3.22	2.63	2.23	1.94	1.72	1.54	1.40	0.74
SBS 30	117	75.5	57.0	46.7	39.1	34.0	30.2	27.2	24.7	19.6	10.9	7.66	5.93	4.86	4.12	3.58	3.17	2.85	2.64	1.46
SBS HB30	117	75.5	57.0	46.7	39.1	34.0	30.2	27.2	24.7	19.6	10.9	7.66	5.93	4.86	4.12	3.58	3.17	2.85	2.64	1.46
SBS 40	149	101	78.0	64.1	54.6	47.8	42.6	38.4	35.0	27.9	15.6	10.9	8.46	6.91	5.86	5.08	4.59	4.03	3.77	2.06
SBS 60	190	129	102	83.8	71.0	62.3	55.7	50.4	46.1	36.9	21.0	14.9	11.6	9.49	8.06	7.02	6.22	5.59	5.08	2.71
SBS 110	321	239	193	163	142	126	114	104	95.7	77.6	45.3	32.5	25.5	21.0	18.0	15.7	14.0	12.6	11.5	6.26
SBS 130	405	286	227	190	164	145	131	119	110	88.8	51.9	37.3	29.3	24.2	20.7	18.1	16.1	14.5	13.2	7.03
SBS 300	870	664	548	471	400	346	313	282	253	201	116	83.7	66.2	54.3	47.8	41.6	37.4	34.3	31.0	17.3
SBS 390	952	733	602	511	447	401	363	331	304	247	145	103	80.8	66.5	56.6	49.3	43.9	39.4	36.0	19.2
SBS J13	50.9	33.5	25.6	20.9	17.7	15.5	13.7	12.4	11.3	8.94	4.99	3.50	2.71	2.22	1.88	1.63	1.44	1.30	1.18	0.62
SBS J16	62.0	41.7	32.0	26.3	22.4	19.6	17.4	15.7	14.3	11.4	6.35	4.45	3.44	2.81	2.37	2.06	1.82	1.63	1.48	0.77
SBS J30	113	76.6	58.8	48.0	40.8	35.5	31.5	28.3	25.8	20.3	11.2	7.80	6.01	4.90	4.15	3.61	3.19	2.86	2.60	1.39
SBS J40	154	106	82.4	67.9	58.0	50.8	45.2	40.8	37.3	29.6	16.6	11.6	8.96	7.32	6.20	5.38	4.76	4.27	3.87	2.04
SBS J70	257	178	138	114	97.2	84.9	75.5	68.1	62.1	49.1	27.1	18.9	14.5	11.8	10.0	8.62	7.60	6.81	6.16	3.21
SBS B8	148	86.5	63.5	51.0	43.1	37.4	33.3	30.0	27.4	21.9	12.5	8.89	6.93	5.68	4.81	4.17	3.79	3.38	3.05	1.58
SBS B8F	148	86.5	63.5	51.0	43.1	37.4	33.3	30.0	27.4	21.9	12.5	8.89	6.93	5.68	4.81	4.17	3.79	3.38	3.05	1.58
SBS B10	141	97.1	74.8	61.2	51.9	45.1	40.0	36.0	32.7	25.7	14.1	9.80	7.59	6.21	5.27	4.60	4.21	3.99	3.81	2.11
SBS B10F	141	97.1	74.8	61.2	51.9	45.1	40.0	36.0	32.7	25.7	14.1	9.80	7.59	6.21	5.27	4.60	4.21	3.99	3.81	2.11

## Discharge Currents (Amperes) to 1.75Vpc at 20°C

Battery Type	Minutes									Hours										
	5	10	15	20	25	30	35	40	45	1	2	3	4	5	6	7	8	9	10	20
SBS 8	37.3	23.3	17.2	13.8	11.6	10.0	8.83	7.91	7.17	5.62	3.09	2.16	1.68	1.38	1.17	1.02	0.91	0.82	0.75	0.41
SBS 15	66.1	41.9	31.5	25.5	21.5	18.7	16.6	14.9	13.6	10.7	5.99	4.21	3.26	2.67	2.27	1.97	1.75	1.57	1.42	0.75
SBS 30	124	78.3	58.6	47.4	40.0	34.7	30.7	27.6	25.1	19.9	11.1	7.76	6.01	4.92	4.17	3.63	3.21	2.88	2.67	1.48
SBS HB30	124	78.3	58.6	47.4	40.0	34.7	30.7	27.6	25.1	19.9	11.1	7.76	6.01	4.92	4.17	3.63	3.21	2.88	2.67	1.48
SBS 40	160	105	80.4	65.7	55.9	48.8	43.3	39.1	35.6	28.3	15.8	11.1	8.58	7.01	5.94	5.15	4.65	4.08	3.82	2.08
SBS 60	206	136	105	85.8	73.1	64.0	57.0	51.6	47.1	37.6	21.3	15.1	11.7	9.63	8.18	7.12	6.31	5.66	5.14	2.82
SBS 110	352	254	203	170	147	131	117	107	98.2	79.3	46.1	33.0	25.8	21.3	18.2	15.9	14.2	12.8	11.7	6.32
SBS 130	440	303	238	198	171	151	135	123	113	91.1	52.9	37.9	29.8	24.6	21.0	18.3	16.3	14.7	13.4	7.10
SBS 300	986	731	581	492	421	381	333	300	275	216	123	87.0	67.8	56.7	49.2	42.4	37.7	34.5	31.5	17.3
SBS 390	1,041	780	630	534	465	414	373	340	314	254	148	105	81.9	67.4	57.2	50.1	44.3	39.7	36.2	19.3
SBS J13	54.4	35.0	26.5	21.5	18.2	15.8	14.0	12.6	11.5	9.08	5.06	3.55	2.75	2.25	1.90	1.65	1.46	1.31	1.19	0.63
SBS J16	66.4	43.6	33.2	27.1	23.0	20.1	17.8	16.1	14.6	11.6	6.49	4.55	3.52	2.87	2.43	2.11	1.87	1.67	1.52	0.79
SBS J30	121	80.2	61.0	49.5	41.9	36.4	32.2	28.9	26.3	20.7	11.4	7.91	6.10	4.98	4.21	3.66	3.24	2.91	2.64	1.41
SBS J40	166	112	86.0	70.4	59.9	52.3	46.5	41.9	38.2	30.2	16.8	11.8	9.08	7.42	6.28	5.45	4.82	4.32	3.92	2.07
SBS J70	279	189	146	119	101	88.0	78.0	70.2	63.8	50.3	27.6	19.1	14.7	11.9	10.1	8.70	7.68	6.87	6.23	3.26
SBS B8	150	88.9	65.4	52.6	44.3	38.5	34.2	30.8	28.1	22.3	12.7	8.98	6.98	5.72	4.85	4.20	3.82	3.41	3.08	1.61
SBS B8F	150	88.9	65.4	52.6	44.3	38.5	34.2	30.8	28.1	22.3	12.7	8.98	6.98	5.72	4.85	4.20	3.82	3.41	3.08	1.61
SBS B10	153	101	76.8	62.3	52.7	45.7	40.5	36.3	33.0	26.0	14.3	10.0	7.73	6.33	5.38	4.69	4.30	4.06	3.88	2.13
SBS B10F	153	101	76.8	62.3	52.7	45.7	40.5	36.3	33.0	26.0	14.3	10.0	7.73	6.33	5.38	4.69	4.30	4.06	3.88	2.13



# Constant Current Discharge Performance Data



## Discharge Currents (Amperes) to 1.70Vpc at 20°C

Battery Type	Minutes									Hours										
	5	10	15	20	25	30	35	40	45	1	2	3	4	5	6	7	8	9	10	20
SBS 8	39.0	24.0	17.7	14.1	11.8	10.2	8.99	8.04	7.29	5.71	3.13	2.19	1.70	1.40	1.19	1.04	0.92	0.83	0.76	0.42
SBS 15	69.1	43.0	32.1	25.9	21.8	18.9	16.8	15.1	13.7	10.8	6.05	4.26	3.30	2.71	2.30	2.00	1.77	1.59	1.44	0.80
SBS 30	130	80.8	60.1	48.3	40.7	35.3	31.2	28.0	25.5	20.1	11.2	7.85	6.08	4.97	4.22	3.67	3.24	2.91	2.70	1.49
SBS HB30	130	80.8	60.1	48.3	40.7	35.3	31.2	28.0	25.5	20.1	11.2	7.85	6.08	4.97	4.22	3.67	3.24	2.91	2.70	1.49
SBS 40	169	109	82.5	67.1	56.9	49.6	44.0	39.7	36.1	28.6	16.0	11.2	8.69	7.10	6.01	5.22	4.71	4.13	3.86	2.09
SBS 60	222	143	108	88.3	75.0	65.5	58.2	52.6	48.0	38.2	21.6	15.3	11.9	9.75	8.28	7.21	6.38	5.73	5.20	2.84
SBS 110	382	268	211	176	152	134	120	109	100	80.8	46.7	33.4	26.2	21.6	18.5	16.1	14.4	12.9	11.8	6.38
SBS 130	474	320	248	205	176	155	139	126	116	93.0	53.8	38.5	30.2	24.9	21.3	18.6	16.5	14.9	13.5	7.20
SBS 300	1,062	772	614	518	448	390	353	316	289	221	127	88.6	68.8	58.0	49.6	42.8	38.0	34.8	31.6	17.3
SBS 390	1,133	823	658	554	481	426	384	347	321	259	149	107	83.1	68.2	58.2	50.6	45.0	40.3	36.7	19.4
SBS J13	57.7	36.4	27.2	22.0	18.5	16.1	14.3	12.8	11.7	9.20	5.12	3.59	2.78	2.27	1.93	1.68	1.48	1.33	1.21	0.64
SBS J16	70.5	45.3	34.2	27.8	23.5	20.5	18.2	16.4	14.9	11.8	6.60	4.63	3.59	2.93	2.49	2.16	1.91	1.71	1.55	0.81
SBS J30	128	83.3	62.8	50.8	42.9	37.2	32.8	29.5	26.7	21.0	11.5	8.01	6.18	5.04	4.27	3.71	3.29	2.95	2.68	1.43
SBS J40	177	117	89.1	72.6	61.6	53.6	47.6	42.8	38.9	30.8	17.0	11.9	9.20	7.51	6.36	5.52	4.88	4.38	3.97	2.10
SBS J70	300	200	152	123	104	90.6	80.2	71.9	65.3	51.3	27.9	19.3	14.8	12.0	10.1	8.79	7.75	6.94	6.29	3.30
SBS B8	152	91.0	67.2	54.0	45.5	39.5	35.0	31.5	28.7	22.8	12.8	9.07	7.04	5.76	4.88	4.23	3.85	3.44	3.11	1.65
SBS B8F	152	91.0	67.2	54.0	45.5	39.5	35.0	31.5	28.7	22.8	12.8	9.07	7.04	5.76	4.88	4.23	3.85	3.44	3.11	1.65
SBS B10	164	105	78.4	63.3	53.3	46.2	40.9	36.7	33.3	26.2	14.5	10.2	7.87	6.46	5.49	4.78	4.38	4.14	3.95	2.15
SBS B10F	164	105	78.4	63.3	53.3	46.2	40.9	36.7	33.3	26.2	14.5	10.2	7.87	6.46	5.49	4.78	4.38	4.14	3.95	2.15

## Discharge Currents (Amperes) to 1.67Vpc at 20°C

Battery Type	Minutes									Hours										
	5	10	15	20	25	30	35	40	45	1	2	3	4	5	6	7	8	9	10	20
SBS 8	39.9	24.4	18.0	14.3	12.0	10.3	9.08	8.13	7.36	5.77	3.16	2.21	1.72	1.41	1.20	1.05	0.93	0.84	0.77	0.42
SBS 15	70.7	43.6	32.4	26.1	22.0	19.1	16.9	15.2	13.8	10.9	6.09	4.29	3.33	2.73	2.31	2.01	1.78	1.60	1.45	0.76
SBS 30	134	82.1	60.8	48.8	41.1	35.6	31.4	28.2	25.7	20.2	11.3	7.89	6.12	5.01	4.24	3.69	3.26	2.93	2.71	1.49
SBS HB30	134	82.1	60.8	48.8	41.1	35.6	31.4	28.2	25.7	20.2	11.3	7.89	6.12	5.01	4.24	3.69	3.26	2.93	2.71	1.49
SBS 40	174	111	83.6	67.8	57.4	50.0	44.4	39.9	36.4	28.8	16.1	11.3	8.75	7.15	6.05	5.25	4.74	4.16	3.89	2.09
SBS 60	230	146	110	89.6	76.0	66.2	58.9	53.1	48.4	38.5	21.8	15.4	12.0	9.82	8.34	7.25	6.42	5.77	5.23	2.86
SBS 110	399	276	216	180	154	136	122	111	101	81.6	47.1	33.6	26.4	21.8	18.6	16.2	14.4	13.0	11.9	6.41
SBS 130	493	329	254	209	179	158	141	128	117	94.1	54.3	38.8	30.4	25.1	21.4	18.7	16.6	15.0	13.6	7.24
SBS 300	1,080	788	621	522	447	392	355	318	289	222.5	128.3	89.2	69.4	58.4	49.6	42.8	38.2	34.8	31.7	17.3
SBS 390	1,186	849	675	565	487	432	387	354	323	261.5	150.6	107.2	83.9	68.9	58.6	50.9	45.2	40.5	36.9	19.4
SBS J13	59.5	37.1	27.6	22.3	18.7	16.2	14.4	12.9	11.7	9.27	5.15	3.61	2.80	2.29	1.94	1.69	1.49	1.34	1.22	0.64
SBS J16	72.8	46.2	34.7	28.1	23.8	20.7	18.4	16.5	15.0	11.9	6.66	4.68	3.62	2.97	2.51	2.18	1.93	1.73	1.57	0.82
SBS J30	132	85.0	63.8	51.5	43.3	37.5	33.1	29.7	27.0	21.2	11.6	8.07	6.22	5.08	4.30	3.74	3.31	2.97	2.70	1.45
SBS J40	184	120	90.8	73.7	62.4	54.2	48.1	43.2	39.3	31.0	17.2	12.0	9.26	7.56	6.40	5.56	4.92	4.41	4.00	2.11
SBS J70	312	205	155	126	106	91.9	81.2	72.8	66.0	51.8	28.1	19.4	14.9	12.1	10.2	8.84	7.80	6.98	6.33	3.33
SBS B8	153	92.3	68.1	54.7	46.1	40.0	35.4	31.9	29.0	23.0	12.9	9.12	7.07	5.79	4.90	4.25	3.87	3.46	3.13	1.66
SBS B8F	153	92.3	68.1	54.7	46.1	40.0	35.4	31.9	29.0	23.0	12.9	9.12	7.07	5.79	4.90	4.25	3.87	3.46	3.13	1.66
SBS B10	169	106	79.3	63.8	53.7	46.5	41.1	36.9	33.5	26.4	14.6	10.3	7.96	6.53	5.56	4.84	4.43	4.19	4.00	2.16
SBS B10F	169	106	79.3	63.8	53.7	46.5	41.1	36.9	33.5	26.4	14.6	10.3	7.96	6.53	5.56	4.84	4.43	4.19	4.00	2.16

## Discharge Currents (Amperes) to 1.65Vpc at 20°C

Battery Type	Minutes									Hours										
	5	10	15	20	25	30	35	40	45	1	2	3	4	5	6	7	8	9	10	20
SBS 8	40.5	24.7	18.1	14.4	12.1	10.4	9.15	8.18	7.41	5.80	3.18	2.23	1.73	1.42	1.21	1.05	0.94	0.84	0.77	0.42
SBS 15	71.6	43.9	32.6	26.2	22.1	19.1	16.9	15.2	13.8	10.9	6.11	4.30	3.34	2.74	2.32	2.02	1.79	1.61	1.46	0.76
SBS 30	136	82.8	61.2	49.1	41.3	35.7	31.6	28.4	25.8	20.3	11.3	7.92	6.14	5.03	4.26	3.70	3.28	2.94	2.72	1.52
SBS HB30	136	82.8	61.2	49.1	41.3	35.7	31.6	28.4	25.8	20.3	11.3	7.92	6.14	5.03	4.26	3.70	3.28	2.94	2.72	1.52
SBS 40	177	112	84.2	68.2	57.7	50.2	44.5	40.1	36.5	28.9	16.2	11.4	8.79	7.18	6.08	5.27	4.76	4.17	3.90	2.09
SBS 60	235	148	111	90.4	76.6	66.7	59.3	53.4	48.7	38.7	21.9	15.4	12.0	9.86	8.37	7.28	6.45	5.79	5.25	2.90
SBS 110	410	281	219	181	156	137	123	111	102	82.1	47.3	33.8	26.5	21.9	18.7	16.3	14.5	13.1	11.9	6.42
SBS 130	506	335	257	212	181	159	142	129	118	94.7	54.6	39.0	30.5	25.2	21.5	18.8	16.7	15.0	13.7	7.26
SBS 300	1,105	800	633	532	449	395	354	318	290	226	130	89.7	69.7	58.9	49.8	43.1	38.2	35.0	31.8	17.3
SBS 390	1,223	863	684	571	492	434	390	354	325	264	152	109	84.3	69.4	58.8	51.3	45.5	40.8	37.1	19.4
SBS J13	60.6	37.5	27.9	22.4	18.9	16.3	14.4	13.0	11.8	9.30	5.17	3.63	2.81	2.30	1.95	1.69	1.50	1.35	1.22	0.64
SBS J16	74.3	46.7	35.0	28.3	23.9	20.8	18.5	16.6	15.1	12.0	6.69	4.70	3.65	2.98	2.53	2.20	1.94	1.74	1.58	0.82
SBS J30	135	86.0	64.3	51.8	43.6	37.7	33.3	29.9	27.1	21.3	11.6	8.10	6.25	5.10	4.32	3.76	3.33	2.99	2.72	1.45
SBS J40	188	121	91.7	74.4	62.9	54.6	48.4	43.5	39.5	31.2	17.2	12.0	9.30	7.60	6.43	5.59	4.94	4.43	4.02	2.12
SBS J70	320	208	157	127	107	92.6	81.8	73.3	66.5	52.1	28.2	19.5	14.9	12.1	10.2	8.87	7.83	7.01	6.35	3.34
SBS B8	155	93.0	68.7	55.2	46.5	40.3	35.7	32.1	29.2	23.2	13.0	9.15	7.10	5.80	4.92	4.26	3.88	3.47	3.14	1.67
SBS B8F	155	93.0	68.7	55.2	46.5	40.3	35.7	32.1	29.2	23.2	13.0	9.15	7.10	5.80	4.92	4.26	3.88	3.47	3.14	1.67
SBS B10	173	107	79.7	64.1	53.9	46.6	41.2	37.0	33.6	26.5	14.7	10.3	8.02	6.58	5.60	4.88	4.47	4.22	4.03	2.17
SBS B10F	173	107	79.7	64.1	53.9	46.6	41.2	37.0	33.6	26.5	14.7	10.3	8.02	6.58	5.60	4.88	4.47	4.22	4.03	2.17

# Constant Current Discharge Performance Data



## Discharge Currents (Amperes) to 1.63Vpc at 20°C

Battery Type	Minutes									Hours										
	5	10	15	20	25	30	35	40	45	1	2	3	4	5	6	7	8	9	10	20
SBS 8	41.0	24.9	18.3	14.6	12.9	10.5	9.21	8.23	7.46	5.84	3.20	2.24	1.74	1.43	1.21	1.06	0.94	0.85	0.77	0.42
SBS 15	72.4	44.2	32.7	26.3	22.1	19.2	17.0	15.3	13.9	11.0	6.13	4.32	3.35	2.75	2.33	2.03	1.80	1.61	1.46	0.76
SBS 30	138	83.5	61.6	49.4	41.5	35.9	31.7	28.5	25.9	20.4	11.3	7.95	6.16	5.04	4.28	3.72	3.29	2.95	2.73	1.53
SBS HB30	138	83.5	61.6	49.4	41.5	35.9	31.7	28.5	25.9	20.4	11.3	7.95	6.16	5.04	4.28	3.72	3.29	2.95	2.73	1.53
SBS 40	180	113	84.7	68.6	58.0	50.4	44.7	40.3	36.6	29.0	16.2	11.4	8.82	7.21	6.10	5.29	4.77	4.18	3.91	2.11
SBS 60	240	150	113	91.1	77.1	67.1	59.6	53.7	49.0	38.9	21.9	15.5	12.1	9.89	8.40	7.31	6.47	5.81	5.27	2.87
SBS 110	421	285	222	183	157	138	124	112	103	82.5	47.5	33.9	26.6	21.9	18.7	16.3	14.5	13.1	11.9	6.44
SBS 130	518	340	260	214	183	160	143	130	119	95.2	54.8	39.1	30.7	25.3	21.6	18.8	16.7	15.1	13.7	7.29
SBS 300	1,123	800	640	539	450	396	354	318	290	227	130	90.2	69.1	59.0	49.8	43.4	38.3	35.0	31.8	17.3
SBS 390	1,260	879	692	576	497	439	394	356	327	265	153	109	84.7	69.7	59.1	51.4	45.6	41.0	37.3	19.4
SBS J13	61.6	37.9	28.1	22.5	19.0	16.4	14.5	13.0	11.8	9.34	5.19	3.64	2.82	2.31	1.96	1.70	1.51	1.35	1.23	0.64
SBS J16	75.6	47.2	35.3	28.5	24.1	20.9	18.5	16.7	15.2	12.0	6.72	4.73	3.67	3.00	2.54	2.21	1.96	1.75	1.59	0.83
SBS J30	137	86.9	64.8	52.2	43.8	37.9	33.5	30.0	27.2	21.3	11.7	8.14	6.28	5.13	4.34	3.77	3.34	3.00	2.73	1.46
SBS J40	191	123	92.6	74.9	63.3	54.9	48.6	43.7	39.7	31.3	17.3	12.1	9.34	7.63	6.46	5.61	4.96	4.45	4.04	2.13
SBS J70	327	211	159	128	108	93.3	82.3	73.7	66.8	52.3	28.3	19.6	15.0	12.2	10.3	8.91	7.86	7.04	6.38	3.35
SBS B8	155	93.7	69.2	55.6	46.8	40.6	35.9	32.3	29.4	23.3	13.0	9.19	7.12	5.82	4.93	4.28	3.89	3.48	3.15	1.68
SBS B8F	155	93.7	69.2	55.6	46.8	40.6	35.9	32.3	29.4	23.3	13.0	9.19	7.12	5.82	4.93	4.28	3.89	3.48	3.15	1.68
SBS B10	175	108	80.1	64.3	54.1	46.8	41.4	37.1	33.7	26.6	14.8	10.4	8.08	6.64	5.64	4.92	4.50	4.25	4.06	2.17
SBS B10F	175	108	80.1	64.3	54.1	46.8	41.4	37.1	33.7	26.6	14.8	10.4	8.08	6.64	5.64	4.92	4.50	4.25	4.06	2.17

## Discharge Currents (Amperes) to 1.60Vpc at 20°C

Battery Type	Minutes									Hours										
	5	10	15	20	25	30	35	40	45	1	2	3	4	5	6	7	8	9	10	20
SBS 8	41.8	25.3	18.5	14.7	12.3	10.6	9.30	8.31	7.53	5.89	3.23	2.26	1.75	1.44	1.22	1.07	0.95	0.86	0.78	0.43
SBS 15	73.5	44.6	33.0	26.5	22.2	19.3	17.1	15.3	13.9	11.0	6.16	4.34	3.37	2.76	2.35	2.04	1.80	1.62	1.47	0.77
SBS 30	140	84.3	62.0	49.7	41.7	36.0	31.8	28.6	26.0	20.5	11.4	7.99	6.19	5.07	4.30	3.74	3.30	2.96	2.74	1.53
SBS HB30	140	84.3	62.0	49.7	41.7	36.0	31.8	28.6	26.0	20.5	11.4	7.99	6.19	5.07	4.30	3.74	3.30	2.96	2.74	1.53
SBS 40	184	114	85.4	69.0	58.3	50.6	44.9	40.6	36.8	29.2	16.3	11.5	8.87	7.25	6.13	5.32	4.80	4.20	3.93	2.10
SBS 60	246	153	114	92.1	77.8	67.7	60.0	54.1	49.3	39.1	22.1	15.6	12.1	9.94	8.44	7.34	6.50	5.83	5.29	2.88
SBS 110	435	291	225	186	159	139	125	113	103	83.0	47.7	34.1	26.7	22.1	18.8	16.5	14.6	13.2	12.0	6.46
SBS 130	536	347	265	217	185	162	145	131	120	95.9	55.1	39.4	30.8	25.4	21.7	19.0	16.8	15.2	13.8	7.32
SBS 300	1,148	806	650	547	453	397	351	320	290	230	131	90.5	70.5	59.4	50.1	43.4	38.3	35.1	31.9	17.3
SBS 390	1,315	899	703	584	503	443	396	360	329	267	154	110	85.7	70.5	59.6	52.0	46.1	41.3	37.5	19.4
SBS J13	63.0	38.4	28.3	22.7	19.1	16.5	14.6	13.1	11.9	9.38	5.21	3.66	2.84	2.32	1.97	1.71	1.52	1.36	1.23	0.64
SBS J16	77.4	47.9	35.6	28.7	24.2	21.0	18.6	16.7	15.2	12.1	6.75	4.76	3.69	3.02	2.56	2.23	1.97	1.77	1.60	0.84
SBS J30	140	88.0	65.4	52.5	44.1	38.1	33.6	30.1	27.3	21.4	11.7	8.18	6.31	5.16	4.37	3.80	3.36	3.02	2.74	1.46
SBS J40	197	125	93.6	75.6	63.8	55.3	48.9	43.9	39.9	31.5	17.4	12.2	9.40	7.68	6.50	5.65	5.00	4.48	4.07	2.14
SBS J70	337	215	161	130	109	94.0	82.9	74.2	67.2	52.6	28.5	19.7	15.1	12.3	10.3	8.96	7.91	7.08	6.42	3.37
SBS B8	156	94.6	69.8	56.1	47.2	40.9	36.3	32.6	29.6	23.5	13.1	9.23	7.15	5.85	4.95	4.29	3.90	3.49	3.16	1.69
SBS B8F	156	94.6	69.8	56.1	47.2	40.9	36.3	32.6	29.6	23.5	13.1	9.23	7.15	5.85	4.95	4.29	3.90	3.49	3.16	1.69
SBS B10	179	109	80.6	64.6	54.3	47.0	41.5	37.3	33.9	26.7	14.9	10.5	8.18	6.72	5.71	4.98	4.56	4.30	4.10	2.19
SBS B10F	179	109	80.6	64.6	54.3	47.0	41.5	37.3	33.9	26.7	14.9	10.5	8.18	6.72	5.71	4.98	4.56	4.30	4.10	2.19

## Discharge Currents (Amperes) to 1.50Vpc at 20°C

Battery Type	Minutes									Hours										
	5	10	15	20	25	30	35	40	45	1	2	3	4	5	6	7	8	9	10	20
SBS 8	43.5	26.1	19.1	15.2	12.7	10.9	9.58	8.57	7.76	6.07	3.33	2.33	1.81	1.49	1.26	1.10	0.98	0.88	0.80	0.44
SBS 15	75.3	45.2	33.3	26.7	22.4	19.4	17.2	15.4	14.1	11.1	6.22	4.39	3.41	2.80	2.37	2.06	1.83	1.64	1.48	0.77
SBS 30	144	85.4	62.5	49.9	41.9	36.2	32.0	28.7	26.1	20.6	11.5	8.09	6.27	5.14	4.36	3.78	3.35	3.00	2.78	1.55
SBS HB30	144	85.4	62.5	49.9	41.9	36.2	32.0	28.7	26.1	20.6	11.5	8.09	6.27	5.14	4.36	3.78	3.35	3.00	2.78	1.55
SBS 40	191	116	86.0	69.3	58.5	50.8	45.1	40.6	37.0	29.3	16.5	11.6	8.99	7.34	6.20	5.37	4.84	4.23	3.95	2.14
SBS 60	256	157	116	93.6	78.9	68.6	60.8	54.7	49.8	39.5	22.3	15.7	12.2	10.0	8.53	7.42	6.56	5.89	5.34	2.89
SBS 110	470	304	232	190	162	142	126	114	104	83.8	48.2	34.4	27.0	22.3	19.1	16.7	14.8	13.4	12.2	6.50
SBS 130	581	384	273	222	189	165	147	133	121	97.0	55.7	39.8	31.2	25.8	22.0	19.2	17.1	15.4	14.0	7.38
SBS 300	1,201	818	648	547	452	397	352	317	290	231	132	91.0	70.8	59.8	50.3	43.5	38.3	35.1	31.9	17.4
SBS 390	1,478	949	725	595	510	448	402	365	336	271	157	113	88.1	72.4	61.5	53.5	47.3	42.3	38.3	19.4
SBS J13	65.8	39.1	28.6	22.9	19.2	16.6	14.7	13.2	12.0	9.45	5.28	3.72	2.88	2.36	2.00	1.74	1.54	1.38	1.25	0.65
SBS J16	81.2	48.8	35.9	28.8	24.2	21.0	18.6	16.7	15.2	12.0	6.77	4.79	3.73	3.06	2.60	2.27	2.01	1.80	1.64	0.85
SBS J30	148	89.7	66.0	52.8	44.2	38.2	33.7	30.2	27.3	21.5	11.8	8.27	6.40	5.23	4.44	3.86	3.42	3.07	2.78	1.47
SBS J40	209	128	94.9	76.2	64.1	55.5	49.1	44.1	40.0	31.6	17.6	12.3	9.55	7.82	6.63	5.77	5.10	4.58	4.16	2.18
SBS J70	359	221	163	131	109	94.3	83.1	74.4	67.4	52.8	28.8	20.0	15.3	12.5	10.5	9.14	8.06	7.22	6.54	3.40
SBS B8	161	96.4	71.1	57.0	48.0	41.6	36.9	33.1	30.1	23.9	13.3	9.39	7.27	5.94	5.02	4.35	3.95	3.54	3.19	1.69
SBS B8F	161	96.4	71.1	57.0	48.0	41.6	36.9	33.1	30.1	23.9	13.3	9.39	7.27	5.94	5.02	4.35	3.95	3.54	3.19	1.69
SBS B10	184	109	80.9	64.9	54.6	47.3	41.9	37.7	34.3	27.2	15.4	10.9	8.50	6.99	5.94	5.18	4.73	4.47	4.25	2.22
SBS B10F	184	109	80.9	64.9	54.6	47.3	41.9	37.7	34.3	27.2	15.4	10.9	8.50	6.99	5.94	5.18	4.73	4.47	4.25	2.22

# Constant Power Discharge Performance Data



## Constant Power Discharge (Watts per cell) to 1.85Vpc at 20°C

Battery Type	Minutes									Hours										
	5	10	15	20	25	30	35	40	45	1	2	3	4	5	6	7	8	9	10	20
SBS 8	63.3	45.7	38.8	29.4	25.0	21.7	19.2	17.2	15.5	12.1	6.33	4.27	3.22	2.59	2.17	1.86	1.64	1.46	1.32	0.69
SBS 15	112	75.2	58.0	47.6	40.7	35.6	31.7	28.7	26.2	20.9	11.8	8.32	6.47	5.31	4.51	3.92	3.48	3.12	2.84	1.51
SBS 30	208	140	108	88.4	74.6	65.2	58.1	52.4	47.9	38.1	21.5	15.1	11.8	9.62	8.17	7.10	6.29	5.64	5.23	2.87
SBS HB30	208	140	108	88.4	74.6	65.2	58.1	52.4	47.9	38.1	21.5	15.1	11.8	9.62	8.17	7.10	6.29	5.64	5.23	2.87
SBS 40	262	184	145	121	104	91.2	81.6	73.9	67.6	54.1	30.6	21.6	16.7	13.7	11.6	10.1	9.11	8.00	7.49	4.10
SBS 60	326	235	187	156	134	118	106	96.3	88.4	71.3	41.1	29.2	22.8	18.8	16.0	13.9	12.3	11.1	10.1	5.40
SBS 110	532	402	329	281	247	221	200	184	170	139	83.8	61.1	48.5	40.4	34.7	30.5	27.3	24.7	22.6	12.5
SBS 130	693	509	411	349	304	271	245	224	207	169	101	72.9	57.5	47.6	40.7	35.7	31.7	28.6	26.1	14.0
SBS 300	1,169	1,053	901	793	701	630	565	516	456	381	206	148	119	101	87.3	77.9	70.4	64.9	59.9	33.2
SBS 390	1,574	1,267	1,064	923	822	735	671	617	569	468	277	201	158	130	113	98.2	87.4	78.8	71.5	38.4
SBS J13	94.3	64.1	49.2	40.2	34.1	29.7	26.3	23.6	21.4	16.9	9.19	6.36	4.88	3.96	3.34	2.89	2.55	2.28	2.07	1.09
SBS J16	111	75.8	58.9	48.7	41.7	36.6	32.7	29.6	27.0	21.6	12.2	8.64	6.71	5.50	4.67	4.06	3.60	3.23	2.93	1.54
SBS J30	200	140	110	90.4	77.3	67.7	60.3	54.4	49.6	39.4	21.9	15.3	11.8	9.68	8.20	7.12	6.30	5.66	5.14	2.75
SBS J40	270	193	152	127	109	96.1	86.0	78.0	71.4	57.1	32.4	22.8	17.7	14.5	12.3	10.7	9.43	8.47	7.68	4.05
SBS J70	442	317	250	208	179	157	141	127	116	92.5	51.4	35.7	27.4	22.2	18.7	16.1	14.1	12.6	11.4	5.74
SBS B8	275	161	118	96.0	81.4	71.0	63.4	57.4	52.5	42.2	24.6	17.6	13.8	11.3	9.60	8.30	7.55	6.74	6.08	3.09
SBS B8F	275	161	118	96.0	81.4	71.0	63.4	57.4	52.5	42.2	24.6	17.6	13.8	11.3	9.60	8.30	7.55	6.74	6.08	3.09
SBS B10	242	177	140	116	99.6	87.1	77.6	69.9	63.7	50.4	27.8	19.4	15.0	12.2	10.4	9.08	8.32	7.88	7.54	4.23
SBS B10F	242	177	140	116	99.6	87.1	77.6	69.9	63.7	50.4	27.8	19.4	15.0	12.2	10.4	9.08	8.32	7.88	7.54	4.23

## Constant Power Discharge (Watts per cell) to 1.80Vpc at 20°C

Battery Type	Minutes									Hours										
	5	10	15	20	25	30	35	40	45	1	2	3	4	5	6	7	8	9	10	20
SBS 8	66.3	46.9	36.4	29.8	25.3	21.9	19.3	17.3	15.7	12.2	6.39	4.33	3.27	2.63	2.20	1.89	1.67	1.49	1.34	0.70
SBS 15	117	77.1	58.9	48.2	41.1	35.9	32.0	28.9	26.4	21.0	11.9	8.39	6.53	5.36	4.55	3.96	3.51	3.16	2.87	1.51
SBS 30	219	143	109	90.2	75.9	66.3	58.9	53.2	48.5	38.6	21.7	15.3	11.9	9.74	8.27	7.19	6.36	5.71	5.29	2.92
SBS HB30	219	143	109	90.2	75.9	66.3	58.9	53.2	48.5	38.6	21.7	15.3	11.9	9.74	8.27	7.19	6.36	5.71	5.29	2.92
SBS 40	277	191	149	123	106	92.8	82.9	75.0	68.6	54.9	31.1	21.9	17.0	13.9	11.8	10.2	9.25	8.12	7.60	4.13
SBS 60	353	244	193	161	137	121	108	98.2	90.1	72.4	41.7	29.7	23.2	19.0	16.2	14.1	12.5	11.3	10.2	5.45
SBS 110	582	432	350	297	259	231	209	192	177	145	86.3	62.7	49.6	41.3	35.4	31.1	27.8	25.1	23.0	12.6
SBS 130	745	537	430	362	315	280	252	231	213	173	103	74.1	58.4	48.4	41.4	36.2	32.2	29.0	26.4	14.1
SBS 300	1,480	1,240	1,037	870	752	664	594	541	497	401	235	165	129	109	92.7	81.9	73.3	66.7	61.2	33.2
SBS 390	1,699	1,335	1,108	956	850	754	690	635	584	477	284	204	160	132	114	99.3	88.3	79.5	72.2	38.6
SBS J13	98.3	65.6	50.1	40.8	34.6	30.1	26.7	24.0	21.8	17.2	9.45	6.56	5.04	4.10	3.46	3.00	2.65	2.37	2.15	1.12
SBS J16	117	78.9	60.9	50.1	42.8	37.5	33.5	30.3	27.6	22.1	12.5	8.83	6.87	5.63	4.78	4.16	3.68	3.31	3.00	1.58
SBS J30	213	146	113	93.1	79.3	69.3	61.6	55.6	50.6	40.1	22.3	15.6	12.0	9.82	8.32	7.23	6.40	5.75	5.23	2.80
SBS J40	289	202	158	131	112	98.8	88.2	79.8	73.0	58.3	32.8	23.1	17.9	14.7	12.4	10.8	9.56	8.58	7.79	4.11
SBS J70	477	336	263	217	186	163	145	131	119	94.6	52.2	36.2	27.7	22.5	18.9	16.3	14.3	12.8	11.5	5.86
SBS B8	276	164	122	96.0	83.6	72.9	65.0	58.8	53.7	43.1	24.9	17.8	13.9	11.4	9.66	8.38	7.62	6.80	6.14	3.18
SBS B8F	276	164	122	96.0	83.6	72.9	65.0	58.8	53.7	43.1	24.9	17.8	13.9	11.4	9.66	8.38	7.62	6.80	6.14	3.18
SBS B10	263	184	143	117	101	87.8	78.1	70.4	64.1	50.7	28.1	19.6	15.2	12.5	10.6	9.26	8.48	8.03	7.68	4.26
SBS B10F	263	184	143	117	101	87.8	78.1	70.4	64.1	50.7	28.1	19.6	15.2	12.5	10.6	9.26	8.48	8.03	7.68	4.26

## Constant Power Discharge (Watts per cell) to 1.75Vpc at 20°C

Battery Type	Minutes									Hours										
	5	10	15	20	25	30	35	40	45	1	2	3	4	5	6	7	8	9	10	20
SBS 8	69.1	47.8	36.9	30.1	25.4	22.0	19.4	17.4	15.7	12.2	6.46	4.38	3.32	2.67	2.24	1.93	1.70	1.52	1.37	0.72
SBS 15	122	78.8	59.8	48.8	41.5	36.2	32.2	29.1	26.5	21.1	12.0	8.46	6.58	5.41	4.60	4.00	3.55	3.19	2.89	1.52
SBS 30	229	147	112	90.8	77.1	67.2	59.7	53.8	49.1	39.0	22.0	15.5	12.0	9.85	8.36	7.27	6.44	5.78	5.35	2.95
SBS HB30	229	147	112	90.8	77.1	67.2	59.7	53.8	49.1	39.0	22.0	15.5	12.0	9.85	8.36	7.27	6.44	5.78	5.35	2.95
SBS 40	292	197	152	126	107	94.2	84.0	76.0	69.5	55.5	31.4	22.2	17.2	14.1	11.9	10.4	9.36	8.22	7.69	4.16
SBS 60	377	255	198	163	140	123	110	100	91.6	73.6	42.2	30.1	23.5	19.3	16.4	14.3	12.7	11.4	10.4	5.68
SBS 110	631	460	369	311	271	241	218	199	183	149	88.6	64.2	50.7	42.1	36.1	31.7	28.3	25.5	23.3	12.7
SBS 130	795	562	447	374	324	288	259	236	218	177	104	75.3	59.3	49.1	41.9	36.7	32.6	29.4	26.8	14.3
SBS 300	1,575	1,247	1,042	877	758	671	602	547	503	409	238	168	131	110	93.9	82.8	74.0	67.2	61.6	33.3
SBS 390	1,813	1,399	1,152	989	876	776	709	651	598	487	289	207	162	134	113	101	89.5	80.6	73.1	39.0
SBS J13	102	67.04	50.92	41.44	35.10	30.5	27.1	24.4	22.2	17.5	9.67	6.74	5.19	4.23	3.57	3.09	2.73	2.45	2.21	1.15
SBS J16	123	81.65	62.61	51.34	43.78	38.3	34.1	30.9	28.2	22.5	12.7	9.01	7.01	5.75	4.88	4.25	3.76	3.38	3.07	1.61
SBS J30	224	152	117	95.49	81.16	70.8	62.8	56.6	51.5	40.7	22.6	15.8	12.2	10.0	8.44	7.33	6.49	5.84	5.30	2.84
SBS J40	306	211	164	135	115	101	90.2	81.5	74.4	59.3	33.3	23.4	18.1	14.8	12.6	10.9	9.67	8.68	7.88	4.17
SBS J70	511	353	274	225	192	168	149	134	122	96.6	53.0	36.6	28.0	22.7	19.1	16.5	14.5	12.9	11.7	5.97
SBS B8	277	168	125	101	85.6	75.0	66.5	60.1	54.9	43.9	25.2	17.9	14.0	11.5	9.72	8.44	7.67	6.87	6.20	3.24
SBS B8F	277	168	125	101	85.6	75.0	66.5	60.1	54.9	43.9	25.2	17.9	14.0	11.5	9.72	8.44	7.67	6.87	6.20	3.24
SBS B10	281	189	146	119	102	88.0	78.6	70.8	64.4	51.0	28.4	19.9	15.8	12.7	10.8	9.43	8.64	8.18	7.81	4.29
SBS B10F	281	189	146	119	102	88.0	78.6	70.8	64.4	51.0	28.4	19.9	15.8	12.7	10.8	9.43	8.64	8.18	7.81	4.29

# Constant Power Discharge Performance Data



## Constant Power Discharge (Watts per cell) to 1.70Vpc at 20°C

Battery Type	Minutes									Hours										
	5	10	15	20	25	30	35	40	45	1	2	3	4	5	6	7	8	9	10	20
SBS 8	71.6	48.5	37.1	30.2	25.5	22.1	19.5	17.4	15.8	12.3	6.53	4.45	3.38	2.72	2.29	1.97	1.73	1.55	1.40	0.73
SBS 15	126	80.3	60.6	49.3	41.8	36.5	33.0	29.3	26.7	21.3	12.0	8.52	6.64	5.45	4.63	4.03	3.57	3.21	2.92	1.53
SBS 30	238	151	114	92.2	78.1	68.0	60.4	54.4	49.6	39.4	22.2	15.6	12.1	10.0	8.45	7.34	6.50	5.83	5.40	2.96
SBS HB30	238	151	114	92.2	78.1	68.0	60.4	54.4	49.6	39.4	22.2	15.6	12.1	10.0	8.45	7.34	6.50	5.83	5.40	2.96
SBS 40	305	202	155	128	109	95.4	85.1	76.9	70.3	56.1	31.8	22.4	17.4	14.3	12.1	10.5	9.46	8.30	7.76	4.17
SBS 60	399	264	203	167	143	126	112	102	93.0	74.6	42.8	30.4	23.7	19.5	16.6	14.5	12.8	11.5	10.5	5.71
SBS 110	677	485	386	324	281	249	225	205	189	154	90.6	65.4	51.6	42.8	36.7	32.1	28.7	25.9	23.6	12.8
SBS 130	842	586	462	386	333	295	265	242	222	180	106	76.3	60.0	49.7	42.4	37.1	33.0	29.8	27.1	14.4
SBS 300	1,645	1,314	1,081	914	793	698	618	562	516	412	245	173	134	114	94.8	83.5	74.3	67.6	61.8	33.3
SBS 390	1,930	1,455	1,189	1,014	899	793	724	663	609	496	294	209	164	136	117	102	90.3	81.3	74.0	39.2
SBS J13	106	68.4	51.7	42.0	35.5	30.9	27.4	24.7	22.5	17.8	9.87	6.90	5.32	4.34	3.67	3.18	2.81	2.51	2.27	1.17
SBS J16	129	84.1	64.1	52.4	44.6	39.0	34.7	31.4	28.7	22.9	13.0	9.17	7.13	5.85	4.97	4.33	3.83	3.44	3.13	1.64
SBS J30	235	157	120	97.5	82.7	72.0	63.9	57.4	52.3	41.3	22.8	15.9	12.3	10.1	8.54	7.42	6.58	5.91	5.37	2.88
SBS J40	323	219	169	138	118	103	91.9	82.9	75.7	60.2	33.7	23.7	18.3	15.0	12.7	11.1	9.78	8.78	7.97	4.22
SBS J70	543	369	284	232	197	172	153	137	125	98.3	53.6	37.0	28.3	22.9	19.3	16.7	14.7	13.1	11.8	6.07
SBS B8	277	170	127	103	87.5	76.2	67.9	61.3	55.9	44.7	25.5	18.1	14.1	11.5	9.78	8.49	7.72	6.92	6.25	3.30
SBS B8F	277	170	127	103	87.5	76.2	67.9	61.3	55.9	44.7	25.5	18.1	14.1	11.5	9.78	8.49	7.72	6.92	6.25	3.30
SBS B10	297	195	148	121	102	89.1	79.1	71.2	64.9	51.4	28.7	20.2	15.7	12.9	11.0	9.61	8.80	8.33	7.94	4.32
SBS B10F	297	195	148	121	102	89.1	79.1	71.2	64.9	51.4	28.7	20.2	15.7	12.9	11.0	9.61	8.80	8.33	7.94	4.32

## Constant Power Discharge (Watts per cell) to 1.67Vpc at 20°C

Battery Type	Minutes									Hours										
	5	10	15	20	25	30	35	40	45	1	2	3	4	5	6	7	8	9	10	20
SBS 8	72.9	48.8	37.2	30.2	25.5	22.1	19.5	17.4	15.8	12.3	6.57	4.49	3.41	2.76	2.32	2.00	1.76	1.57	1.42	0.74
SBS 15	128	80.9	60.9	49.5	42.0	36.6	32.6	29.4	26.8	21.3	12.1	8.54	6.65	5.46	4.65	4.05	3.58	3.22	2.92	1.53
SBS 30	241	152	114	92.7	78.6	68.3	60.7	54.7	49.8	39.6	22.3	15.7	12.2	10.0	8.49	7.38	6.53	5.86	5.43	2.97
SBS HB30	241	152	114	92.7	78.6	68.3	60.7	54.7	49.8	39.6	22.3	15.7	12.2	10.0	8.49	7.38	6.53	5.86	5.43	2.97
SBS 40	311	205	157	128	110	95.9	85.6	77.4	70.6	56.4	31.9	22.6	17.5	14.3	12.1	10.5	9.50	8.34	7.79	4.17
SBS 60	408	268	206	169	145	127	113	102	93.7	75.1	43.0	30.6	23.9	19.6	16.7	14.5	12.9	11.6	10.5	5.73
SBS 110	699	498	395	331	287	255	229	209	193	156	91.9	66.2	52.2	43.2	37.0	32.4	28.9	26.1	23.8	12.9
SBS 130	864	597	469	391	338	298	269	244	224	182	107	76.8	60.4	50.0	42.7	37.3	33.2	29.9	27.2	14.5
SBS 300	1,679	1,325	1,093	930	798	705	623	566	521	417	248	174	135	114	95.6	84.1	74.8	68.0	62.3	33.3
SBS 390	1,987	1,481	1,207	1,027	910	801	733	670	612	501	294	211	166	136	117	102	90.8	81.9	74.3	39.2
SBS J13	108	69.2	52.1	42.3	35.8	31.1	27.6	24.9	22.6	17.9	10.0	6.98	5.39	4.40	3.72	3.22	2.84	2.54	2.30	1.18
SBS J16	132	85.4	64.9	53.0	45.0	39.4	35.0	31.6	28.9	23.0	13.1	9.25	7.20	5.91	5.02	4.37	3.87	3.48	3.16	1.65
SBS J30	241	159	121	98.6	83.5	72.6	64.4	57.9	52.6	41.6	23.0	16.0	12.4	10.1	8.59	7.47	6.62	5.95	5.41	2.90
SBS J40	332	223	171	140	119	104	92.7	83.7	76.3	60.6	33.9	23.8	18.4	15.1	12.8	11.1	9.85	8.84	8.02	4.24
SBS J70	560	377	289	236	200	174	154	139	126	99.1	54.0	37.3	28.5	23.1	19.4	16.8	14.7	13.2	11.9	6.12
SBS B8	278	171	128	104	88.4	77.0	68.6	61.9	56.4	45.0	25.6	18.1	14.1	11.6	9.81	8.52	7.74	6.96	6.27	3.33
SBS B8F	278	171	128	104	88.4	77.0	68.6	61.9	56.4	45.0	25.6	18.1	14.1	11.6	9.81	8.52	7.74	6.96	6.27	3.33
SBS B10	304	196	149	121	103	89.4	79.4	71.5	65.1	51.6	28.9	20.4	15.9	13.1	11.1	9.71	8.88	8.41	8.01	4.33
SBS B10F	304	196	149	121	103	89.4	79.4	71.5	65.1	51.6	28.9	20.4	15.9	13.1	11.1	9.71	8.88	8.41	8.01	4.33

## Constant Power Discharge (Watts per cell) to 1.65Vpc at 20°C

Battery Type	Minutes									Hours										
	5	10	15	20	25	30	35	40	45	1	2	3	4	5	6	7	8	9	10	20
SBS 8	73.7	48.9	37.2	30.2	25.4	22.0	19.4	17.4	15.8	12.3	6.59	4.52	3.44	2.78	2.34	2.02	1.78	1.59	1.44	0.75
SBS 15	129	81.5	61.3	49.8	42.2	36.7	32.7	29.5	26.9	21.4	12.1	8.58	6.68	5.49	4.66	4.06	3.60	3.23	2.93	1.53
SBS 30	245	154	115	93.3	78.9	68.7	60.9	54.9	50.0	39.7	22.3	15.8	12.3	10.0	8.52	7.41	6.55	5.88	5.45	3.04
SBS HB30	245	154	115	93.3	78.9	68.7	60.9	54.9	50.0	39.7	22.3	15.8	12.3	10.0	8.52	7.41	6.55	5.88	5.45	3.04
SBS 40	316	207	158	129	110	96.4	85.9	77.6	70.9	56.6	32.1	22.6	17.6	14.4	12.2	10.6	9.54	8.36	7.82	4.17
SBS 60	417	272	208	170	145	127	114	103	94.2	75.5	43.2	30.7	24.0	19.7	16.8	14.6	12.9	11.6	10.5	5.74
SBS 110	718	507	401	336	290	257	231	211	194	157	92.3	66.5	52.4	43.4	37.2	32.5	29.0	26.2	23.9	12.9
SBS 130	886	607	476	395	341	301	271	246	226	183	107	77.1	60.7	50.2	42.9	37.5	33.3	30.0	27.3	14.6
SBS 300	1,745	1,344	1,111	946	810	709	629	567	523	419	252	176	137	115	95.9	84.2	74.8	68.0	62.3	33.3
SBS 390	2,043	1,509	1,221	1,036	917	808	735	672	617	502	296	212	166	138	118	103	91.2	82.1	74.6	39.3
SBS J13	110	69.7	52.4	42.5	35.9	31.2	27.7	24.9	22.7	18.0	10.0	7.02	5.43	4.43	3.75	3.25	2.87	2.56	2.32	1.19
SBS J16	134	86.1	65.3	53.3	45.3	39.6	35.2	31.8	29.0	23.1	13.1	9.30	7.24	5.94	5.05	4.40	3.89	3.50	3.17	1.66
SBS J30	245	161	122	99.2	83.9	73.0	64.7	58.1	52.9	41.7	23.0	16.1	12.4	10.2	8.63	7.50	6.65	5.97	5.43	2.91
SBS J40	338	225	172	141	120	104	93.2	84.1	76.6	60.9	34.0	23.9	18.5	15.2	12.8	11.2	9.88	8.87	8.06	4.26
SBS J70	571	382	292	238	202	175	155	139	127	99.6	54.2	37.4	28.6	23.2	19.5	16.8	14.8	13.2	12.0	6.15
SBS B8	278	173	129	105	89.0	77.6	69.0	62.3	56.8	45.3	25.7	18.2	14.2	11.6	9.84	8.54	7.77	6.96	6.29	3.35
SBS B8F	278	173	129	105	89.0	77.6	69.0	62.3	56.8	45.3	25.7	18.2	14.2	11.6	9.84	8.54	7.77	6.96	6.29	3.35
SBS B10	310	199	149	122	103	89.7	79.6	71.7	65.3	51.8	29.1	20.6	16.0	13.2	11.2	9.78	8.95	8.47	8.07	4.35
SBS B10F	310	199	149	122	103	89.7	79.6	71.7	65.3	51.8	29.1	20.6	16.0	13.2	11.2	9.78	8.95	8.47	8.07	4.35

# Constant Power Discharge Performance Data



## Constant Power Discharge (Watts per cell) to 1.63Vpc at 20°C

Battery Type	Minutes									Hours										
	5	10	15	20	25	30	35	40	45	1	2	3	4	5	6	7	8	9	10	20
SBS 8	74.8	49.0	37.2	30.1	25.4	22.0	19.4	17.4	15.8	12.3	6.62	4.55	3.47	2.81	2.36	2.04	1.80	1.61	1.45	0.76
SBS 15	130	81.7	61.4	49.8	42.3	36.8	32.7	29.5	26.9	21.4	12.1	8.58	6.68	5.49	4.68	4.07	3.60	3.24	2.93	1.54
SBS 30	246	154	115	93.5	79.2	68.8	61.1	55.1	50.1	39.8	22.4	15.8	12.3	10.1	8.55	7.43	6.57	5.90	5.45	3.04
SBS HB30	246	154	115	93.5	79.2	68.8	61.1	55.1	50.1	39.8	22.4	15.8	12.3	10.1	8.55	7.43	6.57	5.90	5.45	3.04
SBS 40	318	207	158	130	111	96.7	86.2	77.9	71.1	56.8	32.1	22.7	17.6	14.4	12.2	10.6	9.54	8.38	7.82	4.21
SBS 60	420	273	209	171	146	128	114	103	94.6	75.8	43.3	30.8	24.0	19.7	16.8	14.6	12.9	11.6	10.6	5.74
SBS 110	728	514	406	340	293	260	233	213	196	159	93.2	67.0	52.7	43.7	37.3	32.7	29.1	26.2	23.9	12.9
SBS 130	894	612	479	398	344	303	272	247	227	184	108	77.4	60.8	50.3	43.0	37.6	33.4	30.1	27.4	14.6
SBS 300	1,753	1,352	1,116	951	817	714	634	572	527	424	254	177	137	115	96.0	84.4	74.9	68.2	62.3	33.3
SBS 390	2,065	1,568	1,227	1,040	922	810	740	675	620	505	298	213	168	138	119	103	91.5	82.5	74.8	39.3
SBS J13	111	70.1	52.6	42.6	36.1	31.4	27.8	25.0	22.8	18.1	10.1	7.07	5.46	4.46	3.77	3.27	2.88	2.58	2.34	1.20
SBS J16	135	86.8	65.7	53.5	45.5	39.7	35.4	31.9	29.1	23.2	13.2	9.34	7.27	5.97	5.08	4.42	3.91	3.51	3.19	1.67
SBS J30	248	162	123	99.7	84.3	73.3	64.9	58.3	53.0	41.8	23.1	16.2	12.5	10.2	8.66	7.53	6.67	5.99	5.45	2.91
SBS J40	343	227	174	142	121	105	93.6	84.4	77.0	61.1	34.2	24.0	18.6	15.2	12.9	11.2	9.92	8.91	8.09	4.27
SBS J70	581	387	295	240	203	176	156	140	127	100	54.4	37.6	28.7	23.3	19.6	16.9	14.9	13.3	12.0	6.17
SBS B8	279	173	129	105	90.0	77.9	69.4	62.6	57.1	45.5	25.8	18.2	14.2	11.6	9.89	8.58	7.78	6.97	6.30	3.36
SBS B8F	279	173	129	105	90.0	77.9	69.4	62.6	57.1	45.5	25.8	18.2	14.2	11.6	9.89	8.58	7.78	6.97	6.30	3.36
SBS B10	313	199	150	122	103	89.8	79.8	71.9	65.4	51.9	29.2	20.7	16.1	13.2	11.4	9.94	8.99	8.52	8.10	4.35
SBS B10F	313	199	150	122	103	89.8	79.8	71.9	65.4	51.9	29.2	20.7	16.1	13.2	11.4	9.94	8.99	8.52	8.10	4.35

## Constant Power Discharge (Watts per cell) to 1.60Vpc at 20°C

Battery Type	Minutes									Hours										
	5	10	15	20	25	30	35	40	45	1	2	3	4	5	6	7	8	9	10	20
SBS 8	75.4	49.5	37.4	30.0	25.3	22.1	19.3	17.3	15.7	12.5	6.66	4.59	3.51	2.85	2.40	2.07	1.83	1.63	1.48	0.97
SBS 15	132	82.4	61.8	50.1	42.4	37.0	32.8	29.6	27.0	21.5	12.2	8.62	6.72	5.52	4.69	4.08	3.62	3.25	2.95	1.54
SBS 30	250	156	116	94.0	79.5	69.1	61.3	55.3	50.3	40.0	22.5	15.9	12.3	10.1	8.58	7.46	6.60	5.92	5.48	3.04
SBS HB30	250	156	116	94.0	79.5	69.1	61.3	55.3	50.3	40.0	22.5	15.9	12.3	10.1	8.58	7.46	6.60	5.92	5.48	3.04
SBS 40	325	210	160	130	111	97.1	86.5	78.2	71.4	57.0	32.3	22.8	17.7	14.5	12.3	10.6	9.59	8.40	7.85	4.25
SBS 60	431	278	211	173	147	129	115	104	95.2	76.2	43.5	30.9	24.1	19.8	16.9	14.7	13.0	11.7	10.6	5.75
SBS 110	753	525	413	344	297	263	236	215	198	160	93.7	67.4	53.0	43.9	37.5	32.8	29.2	26.4	24.0	12.9
SBS 130	924	625	487	403	347	306	275	249	229	185	108	77.8	61.2	50.6	43.2	37.8	33.6	30.2	27.5	14.6
SBS 300	1,790	1,370	1,129	953	821	717	647	580	527	426	255	177	138	115	96.4	84.6	75.1	68.4	62.4	33.3
SBS 390	2,148	1,550	1,245	1,053	930	817	746	679	622	507	299	215	169	139	119	104	92.2	82.9	75.3	39.4
SBS J13	113	70.7	53.0	42.9	36.2	31.5	27.9	25.2	22.9	18.2	10.1	7.12	5.51	4.50	3.80	3.30	2.91	2.60	2.36	1.20
SBS J16	138	87.6	66.2	53.9	45.7	39.9	35.5	32.1	29.3	23.3	13.3	9.39	7.32	6.01	5.11	4.45	3.94	3.54	3.21	1.68
SBS J30	252	164	124	100	84.8	73.6	65.2	58.6	53.3	42.0	23.2	16.2	12.6	10.3	8.70	7.57	6.70	6.02	5.47	2.92
SBS J40	350	230	175	143	121	106	94.1	84.9	77.3	61.4	34.3	24.1	18.7	15.3	13.0	11.3	10.0	8.96	8.13	4.29
SBS J70	595	393	298	242	205	178	157	141	128	101	54.7	37.8	28.9	23.4	19.7	17.0	15.0	13.4	12.1	6.20
SBS B8	280	175	131	106	90.0	79.0	69.9	63.1	57.5	45.8	25.9	18.3	14.2	11.7	9.89	8.58	7.81	6.96	6.32	3.38
SBS B8F	280	175	131	106	90.0	79.0	69.9	63.1	57.5	45.8	25.9	18.3	14.2	11.7	9.89	8.58	7.81	6.96	6.32	3.38
SBS B10	319	201	151	122	104	90.0	80.1	72.2	65.8	52.2	29.5	20.9	16.3	13.4	11.4	9.94	9.10	8.60	8.19	4.37
SBS B10F	319	201	151	122	104	90.0	80.1	72.2	65.8	52.2	29.5	20.9	16.3	13.4	11.4	9.94	9.10	8.60	8.19	4.37

## Constant Power Discharge (Watts per cell) to 1.50Vpc at 20°C

Battery Type	Minutes									Hours										
	5	10	15	20	25	30	35	40	45	1	2	3	4	5	6	7	8	9	10	20
SBS 8	77.3	50.3	38.0	29.2	24.6	22.5	18.9	17.0	15.5	12.7	6.81	4.77	3.68	3.00	2.54	2.20	1.94	1.74	1.57	0.81
SBS 15	133	82.9	62.2	50.4	42.7	37.2	33.1	29.8	27.2	21.7	12.3	8.69	6.76	5.55	4.71	4.10	3.63	3.26	2.96	1.53
SBS 30	254	156	117	94.3	79.7	69.4	61.6	55.5	50.6	40.2	22.7	16.0	12.5	10.2	8.67	7.53	6.66	5.97	5.52	3.07
SBS HB30	254	156	117	94.3	79.7	69.4	61.6	55.5	50.6	40.2	22.7	16.0	12.5	10.2	8.67	7.53	6.66	5.97	5.52	3.07
SBS 40	332	212	161	131	112	97.7	87.0	78.7	71.9	57.4	32.6	23.0	17.8	14.6	12.3	10.7	9.60	8.40	7.84	4.26
SBS 60	440	283	215	176	150	131	117	106	96.5	77.1	43.9	31.2	24.3	19.9	16.9	14.7	13.0	11.7	10.6	5.74
SBS 110	795	544	426	353	304	269	241	219	201	163	95.0	68.3	53.7	44.4	37.9	33.2	29.5	26.6	24.2	13.0
SBS 130	975	646	499	412	354	311	279	253	232	188	109	78.6	61.8	51.1	43.6	38.1	33.9	30.5	27.7	14.7
SBS 300	1,846	1,392	1,129	956	826	721	651	583	532	428	257	178	138	116	97.4	85.2	75.2	68.6	62.8	33.4
SBS 390	2,324	1,601	1,266	1,063	937	820	749	683	626	512	306	219	172	142	122	107	93.9	84.2	76.3	39.4
SBS J13	117	71.9	53.5	43.2	36.5	31.7	28.1	25.3	23.1	18.3	10.3	7.21	5.58	4.56	3.86	3.34	2.95	2.64	2.38	1.21
SBS J16	141	88.5	66.5	54.1	45.9	40.0	35.6	32.2	29.4	23.4	13.3	9.48	7.39	6.08	5.17	4.50	3.99	3.58	3.25	1.69
SBS J30	261	166	125	101	85.0	73.8	65.4	58.7	53.4	42.2	23.4	16.4	12.7	10.4	8.80	7.65	6.77	6.08	5.52	2.92
SBS J40	365	234	177	144	122	106	94.4	85.1	77.6	61.6	34.6	24.4	18.9	15.5	13.2	11.5	10.1	9.10	8.26	4.33
SBS J70	624	401	301	244	206	179	158	142	129	101	55.4	38.3	29.4	23.8	20.1	17.3	15.2	13.6	12.3	6.25
SBS B8	284	177	132	108	90.2	79.7	69.9	63.1	58.4	46.5	26.3	18.6	14.4	11.8	9.89	8.58	7.86	7.04	6.36	3.37
SBS B8F	284	177	132	108	90.2	79.7	69.9	63.1	58.4	46.5	26.3	18.6	14.4	11.8	9.89	8.58	7.86	7.04	6.36	3.37
SBS B10	322	201	151	122	104	90.9	80.1	72.2	66.7	53.2	30.3	21.5	16.8	13.8	11.4	9.94	9.37	8.85	8.42	4.41
SBS B10F	322	201	151	122	104	90.9	80.1	72.2	66.7	53.2	30.3	21.5	16.8	13.8	11.4	9.94	9.37	8.85	8.42	4.41



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