

# EnerSys®

Power/Full Solutions



PowerSafe®  
**SBS XL**

12V FRONT TERMINAL SERIES

## Performance Data

# Constant Current Discharge Performance Data



## Discharge Currents (Amperes) at 20°C

End Voltage (Vpc)	Battery Type	Standby Time (Minutes)				Standby Time (Hours)										
		30	35	40	45	1	2	3	4	5	6	7	8	9	10	20
1.75	SBS XL 80F	87.9	79.0	71.9	66.1	53.5	31.5	22.6	17.7	14.6	12.5	10.9	9.73	8.78	8.00	4.29
	SBS XL 80F-FT	87.9	79.0	71.9	66.1	53.5	31.5	22.6	17.7	14.6	12.5	10.9	9.73	8.78	8.00	4.29
	SBS XL 150F-FT	164	148	134	124	100	58.9	42.3	33.2	27.4	23.4	20.5	18.2	16.5	15.0	7.90
	SBS XL 170F-FT	188	169	154	141	114	67.1	48.1	37.7	31.1	26.6	23.2	20.7	18.7	17.0	9.11
1.80	SBS XL 80F	80.9	73.0	66.8	61.5	50.2	30.1	21.9	17.3	14.4	12.4	10.9	9.69	8.76	8.00	4.29
	SBS XL 80F-FT	80.9	73.0	66.8	61.5	50.2	30.1	21.9	17.3	14.4	12.4	10.9	9.69	8.76	8.00	4.29
	SBS XL 150F-FT	151	136	125	115	94.0	56.3	41.0	32.5	27.0	23.2	20.4	18.2	16.4	15.0	7.90
1.85	SBS XL 80F	70.0	63.6	58.4	54.2	45.0	27.5	20.2	16.1	13.5	11.6	10.2	9.11	8.24	7.53	4.08
	SBS XL 80F-FT	70.0	63.6	58.4	54.2	45.0	27.5	20.2	16.1	13.5	11.6	10.2	9.11	8.24	7.53	4.08
	SBS XL 150F-FT	131	119	109	101	84.1	51.4	37.9	30.2	25.2	21.7	19.1	17.1	15.5	14.1	7.51
	SBS XL 170F-FT	150	136	125	116	96.0	58.5	43.0	34.3	28.6	24.6	21.7	19.4	17.5	16.0	8.67

## Discharge Currents (Amperes) at 35°C

End Voltage (Vpc)	Battery Type	Standby Time (Minutes)				Standby Time (Hours)										
		30	35	40	45	1	2	3	4	5	6	7	8	9	10	20
1.75	SBS XL 80F	94.2	84.4	76.6	70.2	56.5	32.7	23.5	18.3	15.1	12.9	11.3	10.0	9.05	8.25	4.43
	SBS XL 80F-FT	94.2	84.4	76.6	70.2	56.5	32.7	23.5	18.3	15.1	12.9	11.3	10.0	9.05	8.25	4.43
	SBS XL 150F-FT	176	158	143	131	106	61.3	44.0	34.3	28.3	24.1	21.1	18.8	17.0	15.5	8.16
	SBS XL 170F-FT	202	181	164	150	121	69.8	50.0	38.9	32.1	27.4	24.0	21.3	19.2	17.5	9.41
1.80	SBS XL 80F	86.0	77.5	70.7	65.1	52.7	31.2	22.7	17.9	14.8	12.7	11.2	9.99	9.03	8.25	4.43
	SBS XL 80F-FT	86.0	77.5	70.7	65.1	52.7	31.2	22.7	17.9	14.8	12.7	11.2	9.99	9.03	8.25	4.43
	SBS XL 150F-FT	161	145	132	122	98.6	58.5	42.5	33.5	27.8	23.9	21.0	18.7	16.9	15.5	8.16
	SBS XL 170F-FT	184	166	151	139	113	66.6	48.4	38.1	31.6	27.1	23.8	21.2	19.2	17.5	9.41
1.85	SBS XL 80F	73.7	67.0	61.4	56.7	46.9	28.5	20.9	16.6	13.8	11.9	10.5	9.38	8.50	7.76	4.22
	SBS XL 80F-FT	73.7	67.0	61.4	56.7	46.9	28.5	20.9	16.6	13.8	11.9	10.5	9.38	8.50	7.76	4.22
	SBS XL 150F-FT	138	125	115	106	87.7	53.3	39.2	31.1	25.9	22.4	19.7	17.6	15.9	14.5	7.76
	SBS XL 170F-FT	158	143	131	121	100	60.7	44.5	35.3	29.5	25.4	22.3	19.9	18.1	16.5	8.98

# Constant Power Discharge Performance Data



## Constant Power (Watts per cell) at 20°C

End Voltage (Vpc)	Battery Type	Standby Time (Minutes)				Standby Time (Hours)										
		30	35	40	45	1	2	3	4	5	6	7	8	9	10	20
1.75	SBS XL 80F	161	146	133	123	99.6	59.5	43.2	34.1	28.3	24.2	21.3	19.0	17.1	15.6	8.44
	SBS XL 80F-FT	161	146	133	123	99.6	59.5	43.2	34.1	28.3	24.2	21.3	19.0	17.1	15.6	8.44
	SBS XL 150F-FT	301	273	249	230	186	111	80.9	64.0	53.0	45.4	39.8	35.5	32.1	29.3	15.6
	SBS XL 170F-FT	346	313	286	263	213	127	92.0	72.7	60.2	51.5	45.2	40.3	36.4	33.2	17.9
1.80	SBS XL 80F	151	137	125	116	94.6	57.2	42.0	33.5	27.9	24.0	21.1	18.9	17.1	15.6	8.44
	SBS XL 80F-FT	151	137	125	116	94.6	57.2	42.0	33.5	27.9	24.0	21.1	18.9	17.1	15.6	8.44
	SBS XL 150F-FT	282	256	234	216	177	107	78.6	62.8	52.3	45.0	39.6	35.4	32.0	29.3	15.6
1.85	SBS XL 80F	323	293	268	247	202	122	89.4	71.3	59.4	51.0	44.9	40.1	36.3	33.2	17.9
	SBS XL 80F-FT	323	293	268	247	202	122	89.4	71.3	59.4	51.0	44.9	40.1	36.3	33.2	17.9
	SBS XL 150F-FT	248	226	208	192	161	99.3	73.5	58.9	49.2	42.4	37.4	33.5	30.3	27.7	14.9
	SBS XL 170F-FT	284	259	237	219	184	113	83.5	66.9	55.9	48.2	42.5	38.0	34.4	31.4	17.2

## Constant Power (Watts per cell) at 35°C

End Voltage (Vpc)	Battery Type	Standby Time (Minutes)				Standby Time (Hours)										
		30	35	40	45	1	2	3	4	5	6	7	8	9	10	20
1.75	SBS XL 80F	172	155	142	131	105	62.1	44.9	35.4	29.2	25.0	21.9	19.5	17.6	16.1	8.72
	SBS XL 80F-FT	172	155	142	131	105	62.1	44.9	35.4	29.2	25.0	21.9	19.5	17.6	16.1	8.72
	SBS XL 150F-FT	322	290	265	244	197	116	84.1	66.3	54.8	46.8	41.0	36.6	33.1	30.2	16.1
	SBS XL 170F-FT	370	333	304	279	225	132	95.7	75.3	62.2	53.1	46.6	41.6	37.5	34.2	18.5
1.80	SBS XL 80F	160	145	133	122	99.1	59.5	43.6	34.6	28.8	24.7	21.7	19.4	17.6	16.1	8.72
	SBS XL 80F-FT	160	145	133	122	99.1	59.5	43.6	34.6	28.8	24.7	21.7	19.4	17.6	16.1	8.72
	SBS XL 150F-FT	298	271	248	229	185	111	81.7	64.9	53.9	46.3	40.7	36.4	33.0	30.2	16.1
	SBS XL 170F-FT	343	310	284	262	212	127	92.9	73.8	61.3	52.6	46.2	41.3	37.4	34.2	18.5
1.85	SBS XL 80F	140	127	117	108	89.7	54.9	40.6	32.4	27.0	23.3	20.6	18.4	16.7	15.2	8.33
	SBS XL 80F-FT	140	127	117	108	89.7	54.9	40.6	32.4	27.0	23.3	20.6	18.4	16.7	15.2	8.33
	SBS XL 150F-FT	261	238	218	202	168	103	76.0	60.8	50.6	43.7	38.5	34.5	31.3	28.6	15.4
	SBS XL 170F-FT	299	272	250	230	192	117	86.4	69.0	57.5	49.6	43.7	39.1	35.4	32.4	17.7



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