

EnerSys®

Power/Full Solutions



SuperSafe®
T
FRONT TERMINAL

Performance Data

Constant Current Discharge Performance Data



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

Battery Type	Standby Time (Minutes)											Standby Time (Hours)													
	5	10	15	20	25	30	35	40	45	50	55	1	1.5	2	2.5	3	4	5	6	7	8	9	10	12	24
12T30F	129.1	86.4	65.6	53.0	44.7	38.8	34.4	31.0	28.2	26.0	24.0	22.4	16.0	12.6	10.4	8.94	6.99	5.80	4.97	4.35	3.88	3.51	3.20	2.74	1.50
12T38F	178.9	109.0	80.6	64.6	54.2	46.9	41.5	37.2	33.8	31.0	28.6	26.6	18.9	14.8	12.2	10.4	8.23	6.83	5.88	5.18	4.65	4.23	3.88	3.35	1.87
12T62F	269.9	173.4	130.9	106.2	89.8	78.2	69.5	62.6	57.1	52.5	48.7	45.4	32.5	25.6	21.1	18.1	14.1	11.6	9.96	8.70	7.73	6.94	6.31	5.36	2.90
12T92F	308.4	223.3	177.0	146.4	124.6	109.0	97.2	87.9	80.4	74.1	68.9	64.4	46.5	36.7	30.5	26.1	20.4	16.8	14.4	12.6	11.3	10.2	9.40	8.08	4.48
12T100FC	352.3	252.9	201.7	169.1	146.2	129.1	115.7	105.0	96.3	89.0	82.7	77.4	56.2	44.3	36.7	31.4	24.4	19.9	16.9	14.6	12.9	11.6	10.5	9.00	4.73
12T101F	305.1	212.5	165.9	140.1	122.0	108.6	98.2	89.6	82.5	76.4	71.2	66.7	48.9	39.0	32.6	28.1	22.2	18.4	15.8	13.9	12.5	11.3	10.3	8.57	4.33
12T125F	304.9	251.1	207.4	178.4	158.0	142.5	129.3	117.8	106.9	98.8	92.6	85.9	62.6	49.8	41.4	35.5	27.9	23.2	19.8	17.2	15.3	13.7	12.5	10.4	5.37
12T155FS	454.8	329.0	267.1	228.6	199.5	177.4	160.2	145.9	133.6	123.3	114.5	108.0	78.2	61.8	51.4	44.2	34.7	28.7	24.6	21.5	19.1	17.2	15.7	13.3	7.12
12T170FS	539.9	388.6	319.0	273.0	238.8	211.7	190.0	171.8	156.9	144.6	134.3	125.4	90.7	71.5	59.3	50.7	39.5	32.5	27.7	24.1	21.4	19.3	17.5	14.9	8.10
12T190F	590.1	433.1	334.8	287.2	251.5	221.6	199.8	182.7	168.9	157.2	147.0	138.1	100.9	79.8	66.2	56.7	44.3	36.5	31.0	27.0	24.0	21.6	19.7	16.8	9.06

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

Battery Type	Standby Time (Minutes)											Standby Time (Hours)													
	5	10	15	20	25	30	35	40	45	50	55	1	1.5	2	2.5	3	4	5	6	7	8	9	10	12	24
12T30F	127.8	86.0	65.5	53.0	44.7	38.8	34.4	31.0	28.2	26.0	24.0	22.4	16.0	12.6	10.4	8.94	6.99	5.79	4.96	4.35	3.88	3.51	3.20	2.74	1.50
12T38F	174.9	107.7	80.0	64.2	54.0	46.7	41.3	37.0	33.7	30.9	28.5	26.5	18.9	14.8	12.2	10.4	8.20	6.81	5.85	5.16	4.63	4.21	3.87	3.33	1.87
12T62F	269.9	173.4	130.9	106.2	89.8	78.2	69.5	62.6	57.1	52.5	48.7	45.4	32.5	25.6	21.1	18.1	14.1	11.6	9.96	8.70	7.73	6.94	6.31	5.36	2.90
12T92F	294.5	217.8	175.1	145.6	124.4	109.0	97.2	87.9	80.4	74.1	68.9	64.4	46.4	36.7	30.4	26.1	20.4	16.8	14.4	12.6	11.3	10.2	9.39	8.07	4.47
12T100FC	340.0	246.3	197.7	166.3	144.0	127.2	114.1	103.6	95.1	87.9	81.8	76.6	55.7	44.0	36.5	31.2	24.2	19.8	16.8	14.5	12.9	11.5	10.5	8.99	4.73
12T101F	305.1	212.5	165.9	140.1	122.0	108.6	98.2	89.6	82.5	76.4	71.2	66.7	48.9	39.0	32.6	28.1	22.2	18.4	15.8	13.9	12.5	11.3	10.3	8.57	4.33
12T125F	304.9	251.1	207.4	178.4	158.0	142.5	129.3	117.8	106.9	98.8	92.6	85.9	62.6	49.8	41.4	35.5	27.9	23.2	19.8	17.2	15.3	13.7	12.5	10.4	5.37
12T155FS	454.8	329.0	267.1	228.6	199.5	177.4	160.2	145.9	133.6	123.3	114.5	108.0	78.2	61.8	51.4	44.2	34.7	28.7	24.6	21.5	19.1	17.2	15.7	13.3	7.12
12T170FS	512.1	379.1	314.1	269.8	236.2	209.3	187.9	170.6	155.9	143.6	133.5	124.8	90.4	71.3	59.1	50.6	39.4	32.4	27.6	24.1	21.4	19.2	17.5	14.9	8.10
12T190F	574.5	420.7	330.2	284.2	249.3	220.3	198.8	181.8	168.1	156.5	146.4	137.5	100.6	79.6	66.1	56.6	44.2	36.4	30.9	27.0	24.0	21.6	19.7	16.8	9.04

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

Battery Type	Standby Time (Minutes)											Standby Time (Hours)													
	5	10	15	20	25	30	35	40	45	50	55	1	1.5	2	2.5	3	4	5	6	7	8	9	10	12	24
12T30F	126.9	85.6	65.3	52.9	44.7	38.8	34.4	31.0	28.2	26.0	24.0	22.4	16.0	12.6	10.4	8.94	6.99	5.79	4.96	4.35	3.88	3.51	3.20	2.74	1.50
12T38F	172.4	106.8	79.6	64.0	53.8	46.6	41.1	36.9	33.5	30.7	28.4	26.4	18.8	14.7	12.1	10.4	8.17	6.78	5.83	5.14	4.62	4.20	3.85	3.32	1.86
12T62F	256.1	168.2	128.5	104.7	88.9	77.5	68.9	62.2	56.7	52.2	48.4	45.1	32.4	25.4	21.0	18.0	14.0	11.6	9.91	8.66	7.69	6.91	6.28	5.33	2.89
12T92F	285.3	213.5	173.2	144.6	123.9	108.7	97.0	87.8	80.4	74.1	68.9	64.4	46.4	36.6	30.4	26.1	20.3	16.8	14.3	12.6	11.3	10.2	9.38	8.06	4.47
12T100FC	329.8	241.1	194.4	163.9	142.2	125.7	112.8	102.5	94.1	87.1	81.1	75.9	55.3	43.8	36.3	31.0	24.1	19.8	16.7	14.5	12.8	11.5	10.5	8.97	4.72
12T101F	305.1	212.5	165.9	140.1	122.0	108.6	98.2	89.6	82.5	76.4	71.2	66.7	48.9	39.0	32.6	28.1	22.2	18.4	15.8	13.9	12.5	11.3	10.3	8.57	4.33
12T125F	304.9	251.1	207.4	178.4	158.0	142.5	129.3	117.8	106.9	98.8	92.6	85.9	62.6	49.8	41.4	35.5	27.9	23.2	19.8	17.2	15.3	13.7	12.5	10.4	5.37
12T155FS	448.1	326.0	264.7	226.7	198.1	176.4	159.5	145.3	133.2	122.9	114.2	107.8	78.1	61.8	51.4	44.2	34.7	28.7	24.6	21.5	19.1	17.2	15.7	13.3	7.12
12T170FS	494.5	372.2	310.5	267.7	235.2	208.5	187.2	169.7	155.2	143.1	133.1	124.4	90.1	71.1	59.0	50.5	39.4	32.4	27.6	24.0	21.3	19.2	17.5	14.9	8.08
12T190F	561.8	408.4	326.0	281.3	246.9	218.7	197.6	180.9	167.3	155.8	145.7	136.9	100.3	79.4	66.0	56.5	44.1	36.3	30.9	26.9	23.9	21.5	19.6	16.7	9.03

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

Battery Type	Standby Time (Minutes)											Standby Time (Hours)													
	5	10	15	20	25	30	35	40	45	50	55	1	1.5	2	2.5	3	4	5	6	7	8	9	10	12	24
12T30F	126.0	85.1	65.1	52.8	44.6	38.8	34.4	31.0	28.2	26.0	24.0	22.4	16.0	12.6	10.4	8.94	6.99	5.78	4.95	4.34	3.87	3.50	3.20	2.73	1.50
12T38F	168.9	105.7	79.1	63.7	53.6	46.4	41.0	36.8	33.4	30.6	28.3	26.3	18.7	14.7	12.1	10.3	8.14	6.76	5.82	5.13	4.60	4.19	3.84	3.31	1.85
12T62F	248.0	165.0	126.8	103.6	88.0	76.9	68.4	61.8	56.4	51.9	48.1	44.9	32.2	25.4	21.0	17.9	14.0	11.5	9.89	8.64	7.67	6.89	6.27	5.32	2.89
12T92F	276.5	208.6	170.7	143.2	123.0	108.2	96.7	87.6	80.1	73.9	68.7	64.2	46.3	36.6	30.3	26.0	20.3	16.7	14.3	12.5	11.2	10.1	9.34	8.02	4.45
12T100FC	317.7	235.0	190.5	161.0	139.8	123.8	111.2	101.2	92.9	86.0	80.2	75.1	54.9	43.4	36.1	30.9	24.0	19.7	16.7	14.4	12.8	11.4	10.4	8.94	4.71
12T101F	300.3	208.9	164.3	139.1	121.3	108.0	97.8	89.3	82.2	76.2	71.1	66.6	48.8	39.0	32.6	28.1	22.2	18.4	15.8	13.9	12.5	11.3	10.3	8.57	4.33
12T125F	304.9	245.8	203.0	175.4	156.0	141.1	128.3	117.2	106.3	98.5	92.2	85.5	62.4	49.7	41.3	35.5	27.9	23.2	19.7	17.2	15.3	13.7	12.5	10.4	5.37
12T155FS	440.5	320.4	261.6	224.6	196.6	175.3	158.7	144.7	132.7	122.5	114.0	107.6	78.0	61.8	51.4	44.2	34.7	28.7	24.6	21.5	19.1	17.2	15.7	13.3	7.12
12T170FS	476.4	364.5	305.9	264.9	233.2	207.3	186.4	168.7	154.2	142.4	132.3	123.8	89.8	70.9	58.8	50.4	39.3	32.3	27.5	24.0	21.3	19.2	17.5	14.9	8.07
12T190F	547.6	391.6	321.0	277.8	244.1	216.7	196.1	179.7	166.3	154.8	144.9	136.2	99.9	79.1	65.7	56.4	44.0	36.2	30.8	26.9	23.9	21.5	19.6	16.7	9.02

Constant Current Discharge Performance Data



Discharge Currents (Amperes) to 1.69Vpc at 20°C

Battery Type	Standby Time (Minutes)											Standby Time (Hours)													
	5	10	15	20	25	30	35	40	45	50	55	1	1.5	2	2.5	3	4	5	6	7	8	9	10	12	24
12T30F	125.1	84.5	64.6	52.5	44.4	38.7	34.3	30.9	28.1	25.9	24.0	22.3	16.0	12.5	10.4	8.92	6.98	5.77	4.95	4.34	3.87	3.50	3.19	2.73	1.49
12T38F	165.0	104.5	78.6	63.3	53.3	46.2	40.8	36.7	33.3	30.5	28.2	26.3	18.7	14.6	12.0	10.3	8.12	6.75	5.81	5.12	4.59	4.18	3.83	3.31	1.85
12T62F	240.9	161.9	125.0	102.4	87.2	76.2	67.9	61.3	56.0	51.6	47.8	44.6	32.1	25.2	20.9	17.9	13.9	11.5	9.86	8.62	7.65	6.87	6.25	5.31	2.88
12T92F	268.0	203.6	167.8	141.3	121.7	107.2	95.9	87.0	79.6	73.5	68.3	63.8	46.1	36.4	30.2	25.9	20.2	16.6	14.2	12.5	11.2	10.1	9.32	8.01	4.44
12T100FC	304.2	228.2	186.0	157.7	137.2	121.6	109.4	99.6	91.6	84.8	79.1	74.2	54.3	43.1	35.8	30.7	23.9	19.6	16.6	14.4	12.7	11.4	10.4	8.92	4.70
12T101F	293.3	205.1	162.5	137.9	120.4	107.4	97.4	88.9	82.0	76.0	70.9	66.5	48.8	39.0	32.6	28.1	22.2	18.4	15.8	13.9	12.5	11.3	10.3	8.57	4.33
12T125F	304.9	240.4	198.7	172.3	154.0	139.6	127.2	116.4	105.6	98.1	91.8	85.1	62.3	49.6	41.3	35.4	27.9	23.1	19.7	17.2	15.2	13.7	12.5	10.4	5.37
12T155FS	427.6	314.5	258.5	222.3	194.9	174.1	157.7	143.9	132.1	122.0	113.7	107.3	77.9	61.8	51.4	44.2	34.7	28.7	24.6	21.5	19.1	17.2	15.7	13.3	7.12
12T170FS	457.6	355.9	300.6	261.3	230.6	205.4	184.7	167.3	153.1	141.3	131.4	123.0	89.3	70.6	58.6	50.2	39.2	32.2	27.4	23.9	21.2	19.1	17.4	14.8	8.03
12T190F	531.9	372.7	315.2	273.8	240.9	214.4	194.3	178.3	165.1	153.7	143.9	135.3	99.3	78.8	65.5	56.2	43.9	36.1	30.7	26.8	23.8	21.4	19.5	16.7	9.01

Discharge Currents (Amperes) to 1.71Vpc at 20°C

Battery Type	Standby Time (Minutes)											Standby Time (Hours)													
	5	10	15	20	25	30	35	40	45	50	55	1	1.5	2	2.5	3	4	5	6	7	8	9	10	12	24
12T30F	124.2	83.9	64.1	52.0	44.0	38.4	34.0	30.7	27.9	25.7	23.8	22.2	15.9	12.5	10.3	8.88	6.95	5.76	4.93	4.33	3.86	3.48	3.18	2.72	1.49
12T38F	161.1	103.2	78.0	62.9	53.0	45.9	40.6	36.5	33.2	30.4	28.1	26.2	18.6	14.6	12.0	10.3	8.11	6.74	5.80	5.11	4.59	4.17	3.83	3.30	1.85
12T62F	233.7	158.7	122.9	100.9	86.1	75.3	67.2	60.7	55.5	51.1	47.4	44.3	31.9	25.1	20.8	17.8	13.9	11.5	9.84	8.60	7.64	6.86	6.24	5.30	2.88
12T92F	259.6	198.5	164.6	139.1	120.1	105.9	94.9	86.2	79.0	72.9	67.8	63.4	45.8	36.2	30.1	25.8	20.1	16.6	14.2	12.5	11.2	10.1	9.30	7.99	4.43
12T100FC	288.6	220.9	181.2	154.2	134.4	119.3	107.5	98.0	90.2	83.6	78.0	73.2	53.8	42.7	35.5	30.4	23.7	19.5	16.5	14.3	12.7	11.4	10.4	8.89	4.69
12T101F	285.1	201.0	160.6	136.5	119.4	106.6	96.7	88.4	81.6	75.7	70.7	66.3	48.7	38.9	32.6	28.1	22.2	18.4	15.8	13.9	12.5	11.3	10.3	8.57	4.33
12T125F	302.9	233.7	194.2	169.1	151.8	137.9	125.8	115.1	104.5	97.4	90.9	84.3	61.9	49.4	41.1	35.2	27.8	23.1	19.7	17.2	15.2	13.7	12.5	10.4	5.37
12T155FS	413.2	308.3	255.1	219.7	193.0	172.7	156.5	142.9	131.2	121.3	113.1	106.8	77.6	61.6	51.3	44.1	34.7	28.7	24.6	21.5	19.1	17.2	15.7	13.3	7.12
12T170FS	437.4	346.8	294.6	257.2	227.6	203.1	182.7	165.7	151.7	140.2	130.4	122.0	88.8	70.3	58.3	50.0	39.0	32.1	27.3	23.8	21.1	19.0	17.3	14.8	8.00
12T190F	514.9	356.1	308.4	269.3	237.3	211.8	192.3	176.6	163.7	152.5	142.8	134.2	98.7	78.3	65.2	55.9	43.7	36.0	30.6	26.7	23.7	21.4	19.5	16.6	8.96

Discharge Currents (Amperes) to 1.73Vpc at 20°C

Battery Type	Standby Time (Minutes)											Standby Time (Hours)													
	5	10	15	20	25	30	35	40	45	50	55	1	1.5	2	2.5	3	4	5	6	7	8	9	10	12	24
12T30F	123.3	83.1	63.5	51.5	43.6	38.0	33.7	30.4	27.7	25.5	23.6	22.0	15.8	12.4	10.2	8.79	6.88	5.70	4.89	4.28	3.82	3.45	3.15	2.69	1.48
12T38F	156.6	101.7	77.3	62.5	52.7	45.7	40.5	36.3	33.0	30.3	28.0	26.1	18.6	14.5	12.0	10.3	8.10	6.73	5.79	5.10	4.58	4.16	3.82	3.30	1.84
12T62F	226.2	155.1	120.7	99.3	84.8	74.3	66.4	60.1	54.9	50.6	47.0	43.9	31.6	24.9	20.7	17.7	13.8	11.4	9.81	8.58	7.62	6.85	6.23	5.30	2.88
12T92F	250.9	193.4	161.0	136.4	118.3	104.5	93.8	85.3	78.2	72.3	67.2	62.9	45.5	36.0	29.9	25.6	20.0	16.5	14.2	12.4	11.1	10.1	9.28	7.98	4.42
12T100FC	272.5	213.5	176.2	150.3	131.4	116.8	105.4	96.2	88.6	82.2	76.8	72.2	53.1	42.2	35.2	30.2	23.6	19.3	16.4	14.2	12.6	11.3	10.3	8.86	4.68
12T101F	275.2	196.4	158.2	134.9	118.1	105.7	95.9	87.8	81.0	75.2	70.2	65.9	48.5	38.7	32.4	27.9	22.1	18.4	15.8	13.9	12.4	11.2	10.2	8.55	4.33
12T125F	291.8	225.8	189.3	165.8	149.3	135.8	123.9	113.4	102.9	96.3	89.5	83.1	61.2	48.9	40.7	35.0	27.6	23.0	19.6	17.1	15.2	13.7	12.5	10.4	5.37
12T155FS	397.3	301.5	251.2	216.8	190.7	170.9	155.1	141.7	130.2	120.4	112.5	106.2	77.2	61.3	51.0	43.9	34.5	28.6	24.5	21.4	19.1	17.2	15.6	13.2	7.12
12T170FS	415.4	337.2	288.0	252.8	224.2	200.3	180.5	163.8	150.1	138.8	129.2	120.9	88.1	69.8	58.0	49.7	38.8	31.9	27.2	23.7	21.0	18.9	17.2	14.7	7.97
12T190F	496.5	343.1	301.9	264.6	233.4	209.0	190.0	174.7	162.0	151.1	141.5	133.1	98.0	77.8	64.8	55.6	43.5	35.8	30.5	26.6	23.6	21.3	19.4	16.5	8.93

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

Battery Type	Standby Time (Minutes)											Standby Time (Hours)													
	5	10	15	20	25	30	35	40	45	50	55	1	1.5	2	2.5	3	4	5	6	7	8	9	10	12	24
12T30F	122.5	82.3	62.8	50.9	43.2	37.6	33.4	30.1	27.4	25.2	23.4	21.8	15.6	12.3	10.1	8.72	6.83	5.66	4.85	4.25	3.79	3.42	3.13	2.67	1.46
12T38F	151.9	100.1	76.5	62.1	52.4	45.5	40.3	36.2	32.9	30.2	27.9	26.0	18.5	14.5	12.0	10.3	8.09	6.72	5.78	5.10	4.57	4.16	3.82	3.29	1.84
12T62F	218.3	151.4	118.3	97.6	83.5	73.3	65.5	59.3	54.3	50.1	46.5	43.5	31.4	24.8	20.5	17.6	13.8	11.4	9.79	8.56	7.61	6.84	6.22	5.29	2.87
12T92F	238.9	186.6	156.6	133.5	116.1	102.9	92.5	84.2	77.3	71.5	66.6	62.4	45.2	35.8	29.8	25.5	20.0	16.5	14.1	12.4	11.1	10.1	9.26	7.96	4.42
12T100FC	257.5	206.0	170.8	146.4	128.1	114.2	103.2	94.4	87.0	80.8	75.5	71.0	52.5	41.8	34.9	29.9	23.4	19.2	16.3	14.2	12.5	11.3	10.3	8.83	4.66
12T101F	263.1	191.0	155.3	132.8	116.6	104.5	94.9	86.9	80.3	74.5	69.6	65.3	48.1	38.4	32.1	27.7	21.9	18.2	15.6	13.8	12.3	11.2	10.2	8.53	4.32
12T125F	279.5	218.1	184.4	162.2	146.6	133.4	121.8	110.9	101.2	95.0	87.9	81.6	60.5	48.3	40.3	34.6	27.4	22.8	19.5	17.1	15.2	13.6	12.5	10.3	5.37
12T155FS	378.8	293.7	246.6	213.2	187.9	168.6	153.2	140.1	128.8	119.2	111.5	105.2	76.6	60.7	50.6	43.5	34.2	28.4	24.3	21.3	18.9	17.1	15.5	13.2	7.08
12T170FS	392.3	326.9	280.9	247.7	220.2	197.3	177.9	161.7	148.3	137.2	127.8	119.7	87.4	69.3	57.6	49.4	38.6	31.8	27.1	23.6	20.9	18.8	17.2	14.6	7.93
12T190F	477.2	333.8	293.9	259.5	229.4	206.1	187.7	172.8	160.2	149.5	140.1	131.8	97.2	77.3	64.4	55.3	43.3	35.6	30.3	26.4	23.5	21.2	19.3	16.4	8.88

Constant Current Discharge Performance Data



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

Battery Type	Standby Time (Minutes)											Standby Time (Hours)													
	5	10	15	20	25	30	35	40	45	50	55	1	1.5	2	2.5	3	4	5	6	7	8	9	10	12	24
12T30F	119.9	80.0	60.7	49.2	41.7	36.4	32.3	29.1	26.6	24.5	22.7	21.2	15.3	12.0	10.0	8.57	6.73	5.58	4.78	4.19	3.74	3.38	3.10	2.64	1.45
12T38F	139.5	95.9	74.4	60.8	51.6	44.9	39.8	35.8	32.5	29.9	27.6	25.7	18.3	14.4	11.9	10.2	8.06	6.69	5.76	5.08	4.56	4.14	3.80	3.28	1.83
12T62F	198.3	141.4	111.4	92.5	79.5	70.1	62.9	57.0	52.3	48.3	45.0	42.1	30.6	24.2	20.2	17.3	13.6	11.3	9.72	8.52	7.57	6.81	6.20	5.27	2.87
12T92F	208.9	167.8	143.6	123.7	108.6	97.5	88.3	80.7	74.5	69.2	64.6	60.6	44.4	35.3	29.4	25.3	19.8	16.4	14.0	12.3	11.0	10.0	9.20	7.93	4.40
12T100FC	231.4	186.4	156.6	135.2	119.3	106.9	97.1	89.2	82.4	76.7	71.9	67.8	50.5	40.4	33.9	29.2	22.9	18.9	16.0	13.9	12.3	11.1	10.0	8.72	4.62
12T101F	227.6	174.9	146.0	125.7	111.1	100.0	90.9	83.5	77.2	71.8	67.1	62.9	46.4	37.2	31.1	26.9	21.3	17.8	15.3	13.5	12.1	10.9	10.0	8.32	4.31
12T125F	248.0	196.1	167.5	149.7	136.0	124.1	113.3	102.4	96.0	89.0	82.2	76.4	57.7	46.2	38.7	33.3	26.6	22.2	19.1	16.7	14.9	13.5	12.5	10.3	5.37
12T155FS	329.1	271.3	231.3	201.1	178.4	161.0	146.5	134.1	123.6	114.6	107.8	101.4	73.8	58.7	48.9	42.1	33.1	27.4	23.5	20.6	18.3	16.5	15.0	12.7	6.88
12T170FS	351.6	298.8	262.2	233.3	208.8	188.3	170.7	155.4	143.0	132.6	123.7	116.0	85.1	67.8	56.5	48.5	37.9	31.2	26.6	23.2	20.6	18.6	17.0	14.4	7.81
12T190F	406.0	309.2	273.8	245.3	218.7	198.0	181.1	167.1	155.1	144.8	135.8	127.7	94.6	75.5	63.1	54.2	42.5	35.0	29.8	26.0	23.1	20.8	19.0	16.2	8.74

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

Battery Type	Standby Time (Minutes)											Standby Time (Hours)													
	5	10	15	20	25	30	35	40	45	50	55	1	1.5	2	2.5	3	4	5	6	7	8	9	10	12	24
12T30F	115.6	76.5	57.8	46.9	39.8	34.8	30.9	27.9	25.4	23.4	21.8	20.3	14.7	11.6	9.70	8.34	6.59	5.47	4.70	4.13	3.69	3.34	3.05	2.61	1.43
12T38F	125.2	89.7	71.2	58.6	50.1	43.7	38.8	35.1	31.9	29.3	27.1	25.2	17.9	14.0	11.6	9.94	7.81	6.49	5.59	4.93	4.43	4.03	3.70	3.19	1.79
12T62F	177.3	130.2	102.9	86.0	74.3	65.9	59.2	53.9	49.6	46.0	42.8	40.0	29.4	23.4	19.6	16.9	13.3	11.1	9.54	8.39	7.47	6.73	6.17	5.24	2.84
12T92F	186.5	151.0	128.8	112.6	99.8	90.2	82.7	76.0	70.4	66.0	61.9	57.9	42.8	34.3	28.8	24.9	19.5	16.3	13.9	12.2	10.9	9.94	9.11	7.83	4.39
12T100FC	200.5	166.6	141.7	123.3	109.4	98.6	89.8	82.5	76.6	71.5	67.0	63.1	47.5	38.3	32.4	27.9	22.0	18.2	15.5	13.5	11.9	10.8	9.91	8.47	4.55
12T101F	193.3	155.2	132.6	115.2	102.5	92.7	84.6	77.8	72.1	67.1	62.6	58.8	43.6	34.9	29.2	25.3	20.1	16.8	14.5	12.8	11.4	10.4	9.49	7.89	4.23
12T125F	210.4	170.2	148.4	133.7	121.0	108.5	99.0	91.6	83.6	77.1	72.3	68.4	51.9	41.7	34.9	30.3	24.3	20.4	17.5	15.4	13.8	12.7	11.5	9.58	5.37
12T155FS	290.1	244.1	210.4	184.3	164.8	149.0	136.1	124.8	115.2	108.1	101.2	94.9	69.3	55.2	46.0	39.6	31.1	25.8	22.1	19.3	17.2	15.5	14.1	12.0	6.51
12T170FS	304.1	266.4	239.1	213.6	192.6	174.2	159.4	145.8	134.4	125.1	116.7	109.6	81.2	64.8	54.1	46.5	36.5	30.0	25.6	22.3	19.8	17.8	16.2	13.8	7.54
12T190F	332.6	286.4	255.5	228.9	206.7	187.8	172.5	158.6	147.3	137.7	128.8	121.1	90.1	72.1	60.4	52.1	40.9	33.7	28.7	25.0	22.2	20.0	18.3	15.6	8.50

Constant Power Discharge Performance Data



Constant Power (Watts per cell) to 1.69Vpc at 20°C

Battery Type	Standby Time (Minutes)											Standby Time (Hours)													
	5	10	15	20	25	30	35	40	45	50	55	1	1.5	2	2.5	3	4	5	6	7	8	9	10	12	24
12T30F	228.5	157.1	121.3	99.2	84.3	73.6	65.4	59.0	53.8	49.5	45.9	42.9	31.1	24.4	20.2	17.3	13.5	11.2	9.64	8.48	7.56	6.83	6.24	5.32	2.92
12T38F	294.4	193.7	148.6	120.9	102.4	89.0	78.8	71.0	64.6	59.3	54.8	51.0	36.6	28.6	23.6	20.2	15.8	13.1	11.3	10.0	8.97	8.14	7.49	6.48	3.62
12T62F	425.9	293.1	230.5	190.6	163.5	143.6	128.2	116.4	106.6	98.3	91.4	85.5	62.2	49.1	40.7	35.0	27.4	22.6	19.3	16.9	15.1	13.6	12.4	10.5	5.72
12T92F	458.6	355.0	299.2	256.3	224.0	198.9	179.2	163.5	150.4	139.1	129.7	121.5	89.1	70.6	58.6	50.4	39.5	32.6	27.9	24.5	21.9	19.7	18.1	15.6	8.72
12T100FC	523.8	399.0	331.7	285.0	250.5	224.0	202.7	185.4	171.0	159.0	148.8	139.8	104.1	83.1	69.4	59.7	46.8	38.6	32.8	28.5	25.2	22.6	20.6	17.5	9.38
12T101F	503.6	363.9	292.7	249.7	219.4	196.5	178.4	164.0	151.6	141.1	132.0	124.0	91.8	73.4	61.6	53.2	42.1	35.1	30.2	26.5	23.8	21.6	19.7	16.7	8.48
12T125F	531.1	419.8	350.8	305.4	273.9	250.4	230.3	212.4	196.3	181.4	168.4	158.8	115.6	93.2	77.8	67.0	52.8	43.9	37.7	32.9	29.3	26.4	24.0	20.4	10.5
12T155FS	738.1	552.5	462.5	402.9	357.2	321.3	292.6	269.0	248.8	230.9	215.3	201.9	149.4	118.8	99.1	85.3	67.2	55.8	47.8	41.9	37.3	33.7	30.7	26.1	14.0
12T170FS	796.9	616.7	527.8	464.8	415.8	374.4	339.7	310.2	284.9	263.4	245.3	229.8	168.3	133.6	111.2	95.4	74.7	61.5	52.4	45.7	40.6	36.6	33.3	28.4	15.4
12T190F	895.5	661.9	554.3	490.5	438.8	394.9	358.9	330.0	306.1	286.1	268.7	253.3	188.8	150.6	125.6	108.1	84.7	69.9	59.5	51.9	46.1	41.5	37.8	32.3	17.5

Constant Power (Watts per cell) to 1.71Vpc at 20°C

Battery Type	Standby Time (Minutes)											Standby Time (Hours)													
	5	10	15	20	25	30	35	40	45	50	55	1	1.5	2	2.5	3	4	5	6	7	8	9	10	12	24
12T30F	228.5	156.6	120.8	98.8	84.0	73.3	65.1	58.8	53.7	49.4	45.8	42.8	31.0	24.4	20.2	17.3	13.5	11.2	9.63	8.46	7.55	6.82	6.23	5.32	2.92
12T38F	289.4	191.5	147.8	120.5	102.1	88.8	78.7	70.9	64.5	59.2	54.7	51.0	36.6	28.6	23.6	20.2	15.8	13.1	11.3	10.0	8.97	8.14	7.49	6.48	3.62
12T62F	416.6	288.9	227.7	188.7	162.2	142.4	127.4	115.7	105.9	97.7	91.0	85.1	62.0	48.9	40.6	34.9	27.3	22.6	19.3	16.9	15.1	13.6	12.3	10.5	5.72
12T92F	447.9	349.6	295.2	253.5	221.9	197.3	178.1	162.6	149.5	138.4	129.1	121.0	88.8	70.4	58.5	50.3	39.4	32.5	27.9	24.5	21.9	19.7	18.1	15.6	8.71
12T100FC	501.8	389.7	325.7	280.5	247.0	220.9	200.1	183.2	169.1	157.4	147.3	138.4	103.3	82.5	69.0	59.4	46.6	38.4	32.7	28.4	25.1	22.6	20.5	17.5	9.36
12T101F	492.6	358.5	290.0	248.4	218.5	195.9	178.2	163.8	151.4	140.9	131.8	123.8	91.8	73.4	61.6	53.2	42.1	35.1	30.2	26.5	23.8	21.6	19.7	16.7	8.48
12T125F	525.6	411.7	345.2	301.7	271.5	248.6	228.9	211.0	195.2	180.1	168.0	157.9	115.4	92.9	77.6	66.8	52.7	43.9	37.7	32.9	29.2	26.3	24.0	20.4	10.5
12T155FS	720.1	545.8	458.7	400.5	355.4	319.9	291.6	268.3	248.1	230.3	215.0	201.6	149.1	118.7	99.0	85.2	67.2	55.7	47.8	41.9	37.3	33.7	30.7	26.1	14.0
12T170FS	766.9	605.8	521.2	460.1	412.7	371.9	337.6	308.2	283.1	261.9	244.0	228.7	167.7	133.3	111.0	95.3	74.6	61.4	52.4	45.7	40.6	36.5	33.2	28.3	15.4
12T190F	879.3	637.4	546.0	485.7	435.1	391.6	356.7	328.2	304.7	284.9	267.6	252.3	188.2	150.1	125.3	107.8	84.6	69.8	59.5	51.9	46.0	41.5	37.8	32.2	17.5

Constant Power (Watts per cell) to 1.73Vpc at 20°C

Battery Type	Standby Time (Minutes)											Standby Time (Hours)													
	5	10	15	20	25	30	35	40	45	50	55	1	1.5	2	2.5	3	4	5	6	7	8	9	10	12	24
12T30F	228.5	156.1	120.2	98.2	83.5	72.8	64.8	58.5	53.4	49.1	45.6	42.5	30.8	24.2	20.0	17.2	13.4	11.1	9.57	8.41	7.50	6.77	6.18	5.29	2.90
12T38F	283.4	188.9	146.9	120.0	101.8	88.6	78.6	70.8	64.4	59.0	54.7	50.9	36.5	28.6	23.6	20.2	15.8	13.1	11.3	10.0	8.97	8.14	7.49	6.48	3.62
12T62F	406.6	284.3	224.7	186.4	160.5	141.0	126.4	114.8	105.1	97.1	90.4	84.5	61.7	48.7	40.5	34.8	27.2	22.5	19.3	16.9	15.1	13.6	12.3	10.5	5.72
12T92F	435.9	342.3	290.3	250.3	219.5	195.4	176.6	161.4	148.5	137.6	128.4	120.4	88.4	70.1	58.3	50.1	39.3	32.5	27.8	24.5	21.8	19.7	18.1	15.6	8.70
12T100FC	478.5	380.0	319.0	275.4	242.9	217.5	197.2	180.7	167.0	155.6	145.6	136.9	102.4	81.9	68.5	59.1	46.4	38.2	32.5	28.3	25.0	22.5	20.4	17.4	9.35
12T101F	479.3	352.9	286.8	246.6	217.2	194.9	177.5	163.2	151.0	140.6	131.6	123.6	91.5	73.3	61.4	53.0	42.0	35.0	30.1	26.5	23.7	21.5	19.7	16.6	8.48
12T125F	510.9	400.8	338.9	297.9	268.8	246.3	226.7	209.0	192.9	177.9	167.1	156.2	114.6	92.3	77.1	66.4	52.5	43.8	37.6	32.9	29.2	26.3	24.0	20.4	10.5
12T155FS	699.0	538.1	454.7	397.5	352.9	318.1	290.2	267.0	247.0	229.4	214.3	201.0	148.7	118.3	98.8	85.0	67.0	55.5	47.6	41.7	37.2	33.6	30.6	26.0	14.0
12T170FS	731.9	593.9	513.5	454.9	408.8	368.7	334.9	305.9	281.0	260.2	242.6	227.4	166.9	132.8	110.6	95.0	74.4	61.3	52.2	45.6	40.5	36.4	33.2	28.2	15.3
12T190F	861.9	615.2	536.7	480.3	430.5	387.8	353.9	326.1	303.0	283.4	266.2	251.1	187.4	149.6	124.9	107.5	84.3	69.6	59.3	51.7	45.9	41.4	37.7	32.2	17.4

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

Battery Type	Standby Time (Minutes)											Standby Time (Hours)													
	5	10	15	20	25	30	35	40	45	50	55	1	1.5	2	2.5	3	4	5	6	7	8	9	10	12	24
12T30F	228.5	155.5	119.6	97.5	82.9	72.3	64.4	58.1	53.0	48.7	45.3	42.3	30.6	24.0	19.9	17.0	13.3	11.0	9.51	8.36	7.45	6.73	6.15	5.27	2.89
12T38F	277.0	186.9	145.9	119.5	101.5	88.4	78.4	70.6	64.3	58.9	54.6	50.8	36.5	28.6	23.6	20.2	15.8	13.1	11.3	10.0	8.97	8.14	7.49	6.48	3.62
12T62F	396.0	279.4	221.4	184.0	158.6	139.5	125.2	113.8	104.3	96.4	89.7	83.9	61.4	48.5	40.3	34.6	27.2	22.5	19.3	16.9	15.0	13.6	12.3	10.5	5.72
12T92F	419.0	333.6	284.5	246.6	216.3	193.2	174.9	159.9	147.3	136.7	127.7	119.7	88.1	69.8	58.1	50.0	39.2	32.4	27.8	24.5	21.8	19.7	18.1	15.6	8.69
12T100FC	457.2	369.7	311.7	269.9	238.3	213.8	194.2	178.0	164.8	153.5	143.8	135.2	101.5	81.2	68.1	58.7	46.1	38.1	32.4	28.2	25.0	22.4	20.4	17.4	9.33
12T101F	463.1	345.9	283.2	244.1	215.3	193.4	176.4	162.1	150.2	139.9	130.9	123.1	91.1	72.9	61.1	52.8	41.8	34.8	29.9	26.4	23.6	21.4	19.6	16.6	8.47
12T125F	494.3	390.0	331.7	293.2	265.5	243.4	224.0	206.4	189.9	175.3	165.1	154.1	113.6	91.5	76.5	65.9	52.2	43.6	37.4	32.8	29.2	26.3	24.0	20.4	10.5
12T155FS	673.1	528.6	449.6	393.5	349.6	315.6	288.0	265.2	245.3	227.9	212.8	199.8	147.9	117.8	98.3	84.7	66.7	55.3	47.4	41.5	37.0	33.4	30.5	25.9	13.9
12T170FS	695.2	580.7	504.8	449.0	404.0	364.8	331.8	303.2	278.6	258.1	240.7	225.7	166.0	132.1	110.2	94.6	74.1	61.1	52.0	45.4	40.3	36.3	33.0	28.1	15.3
12T190F	843.2	596.6	527.0	474.4	425.4	383.9	351.0	323.8	301.1	281.6	264.6	249.6	186.4	148.8	124.4	107.1	84.0	69.3	59.1	51.5	45.8	41.2	37.6	32.1	17.4

Constant Power Discharge Performance Data



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

Battery Type	Standby Time (Minutes)											Standby Time (Hours)													
	5	10	15	20	25	30	35	40	45	50	55	1	1.5	2	2.5	3	4	5	6	7	8	9	10	12	24
12T30F	227.4	153.2	117.1	95.2	81.0	70.6	62.9	56.8	51.7	47.7	44.3	41.4	30.1	23.6	19.6	16.8	13.2	10.9	9.45	8.30	7.39	6.68	6.10	5.24	2.86
12T38F	259.1	180.8	142.9	117.8	100.5	87.6	77.9	70.2	63.9	58.6	54.3	50.6	36.3	28.4	23.5	20.1	15.8	13.1	11.3	10.0	8.95	8.13	7.48	6.48	3.62
12T62F	367.3	265.4	211.4	176.7	152.6	134.8	121.4	110.4	101.3	93.9	87.5	81.9	60.2	47.7	39.8	34.2	27.0	22.4	19.2	16.9	15.0	13.5	12.3	10.5	5.72
12T92F	378.0	307.2	266.4	232.1	205.3	184.9	168.5	154.7	143.0	133.2	124.7	117.1	86.9	69.0	57.8	49.7	39.0	32.3	27.7	24.4	21.8	19.7	18.1	15.6	8.67
12T100FC	420.6	343.0	291.6	253.8	225.2	202.9	184.9	170.3	158.0	147.4	138.3	130.6	98.4	79.1	66.6	57.6	45.4	37.5	32.0	27.8	24.6	22.1	20.2	17.2	9.28
12T101F	412.8	321.9	270.5	234.7	207.8	187.4	171.2	157.6	146.2	136.2	127.5	119.8	88.7	71.1	59.6	51.6	40.9	34.1	29.4	26.0	23.3	21.1	19.3	16.2	8.44
12T125F	450.1	358.8	307.7	275.3	251.3	230.8	211.9	194.4	178.8	167.9	156.2	145.6	109.8	88.2	74.1	63.9	51.0	42.7	36.8	32.3	28.9	26.1	23.9	20.2	10.5
12T155FS	597.2	497.3	429.7	377.5	336.7	305.0	279.0	257.0	237.9	221.3	206.8	195.7	143.7	114.7	95.7	82.5	65.0	53.9	46.2	40.5	36.1	32.6	29.7	25.2	13.5
12T170FS	635.8	543.5	480.3	431.3	388.6	352.4	321.1	294.1	270.9	251.5	235.0	220.7	162.6	129.9	108.4	93.2	73.1	60.3	51.4	44.9	39.9	35.9	32.7	27.8	15.1
12T190F	751.3	566.6	502.2	456.8	410.9	373.5	342.6	316.9	294.9	275.8	259.3	244.8	182.8	146.3	122.5	105.5	82.9	68.5	58.4	50.9	45.2	40.7	37.1	31.7	17.2

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

Battery Type	Standby Time (Minutes)											Standby Time (Hours)													
	5	10	15	20	25	30	35	40	45	50	55	1	1.5	2	2.5	3	4	5	6	7	8	9	10	12	24
12T30F	222.8	148.5	112.9	91.8	77.9	68.0	60.6	54.6	49.9	46.1	42.8	40.0	29.2	23.1	19.3	16.5	13.0	10.8	9.33	8.19	7.31	6.60	6.03	5.17	2.83
12T38F	237.3	171.8	138.7	114.8	98.1	86.3	76.8	69.2	63.0	57.9	53.6	49.8	35.7	27.9	23.0	19.7	15.4	12.8	11.1	9.79	8.75	7.96	7.30	6.32	3.53
12T62F	335.2	248.6	198.3	166.6	144.2	128.1	115.6	105.4	97.1	90.0	84.0	78.9	58.1	46.5	38.8	33.6	26.6	22.0	19.0	16.7	14.9	13.5	12.3	10.5	5.70
12T92F	347.2	283.8	244.2	214.7	191.4	173.5	159.3	147.2	136.6	127.8	120.3	113.5	84.0	67.7	56.7	49.2	38.7	32.0	27.6	24.3	21.7	19.6	18.0	15.6	8.66
12T100FC	373.9	314.0	269.3	235.9	210.2	189.9	173.7	160.1	148.7	139.3	130.9	123.5	93.5	75.7	64.0	55.5	43.8	36.3	31.1	27.1	24.0	21.6	19.7	16.9	9.17
12T101F	360.7	291.1	250.4	218.2	194.7	176.3	161.7	148.7	138.1	128.9	120.5	113.3	84.0	67.3	56.4	48.8	38.9	32.6	28.1	24.8	22.1	20.1	18.6	15.5	8.27
12T125F	391.7	318.5	278.2	251.5	228.9	207.6	188.0	175.1	160.8	148.3	138.4	131.0	99.8	80.5	67.6	58.6	47.2	39.5	34.1	30.0	26.9	24.5	22.6	18.9	10.4
12T155FS	541.5	458.9	399.7	352.4	316.0	287.3	263.2	242.8	224.6	209.6	198.0	185.5	136.3	108.8	90.8	78.2	61.6	51.0	43.8	38.4	34.2	30.9	28.2	24.0	12.9
12T170FS	563.5	496.4	447.4	401.8	363.8	330.9	302.7	279.1	257.1	239.6	224.4	210.9	156.5	125.0	105.1	90.2	70.8	58.4	49.7	43.4	38.5	34.6	31.6	27.0	14.6
12T190F	618.0	536.1	479.2	433.3	393.0	359.0	331.5	305.4	283.6	265.6	249.9	235.4	175.4	140.9	118.4	102.2	80.5	66.6	56.6	49.4	43.9	39.6	36.1	30.9	16.8



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