

EnerSys®

Power/Full Solutions



PowerSafe®
✓
FRONT TERMINAL

Performance Data

Constant Current Discharge Performance Data



FRONT TERMINAL

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
12V30F	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
12V38F	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
12V62F	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
12V92F	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
12V100FC	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
12V101F	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
12V125F	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
12V155FS	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
12V170FS	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
12V190F	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
12V30F	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
12V38F	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
12V62F	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
12V92F	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
12V100FC	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
12V101F	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
12V125F	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
12V155FS	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
12V170FS	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
12V190F	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
12V30F	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
12V38F	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
12V62F	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
12V92F	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
12V100FC	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
12V101F	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
12V125F	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
12V155FS	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
12V170FS	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
12V190F	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
12V30F	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
12V38F	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
12V62F	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
12V92F	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
12V100FC	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
12V101F	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
12V125F	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
12V155FS	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
12V170FS	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
12V190F	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

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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
12V30F	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
12V38F	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
12V62F	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
12V92F	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
12V100FC	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
12V101F	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
12V125F	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
12V155FS	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
12V170FS	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
12V190F	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
12V30F	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
12V38F	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
12V62F	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
12V92F	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
12V100FC	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
12V101F	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
12V125F	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
12V155FS	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
12V170FS	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
12V190F	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
12V30F	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
12V38F	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
12V62F	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
12V92F	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
12V100FC	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
12V101F	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
12V125F	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
12V155FS	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
12V170FS	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
12V190F	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
12V30F	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
12V38F	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
12V62F	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
12V92F	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
12V100FC	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
12V101F	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
12V125F	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
12V155FS	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
12V170FS	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
12V190F	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



FRONT TERMINAL

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
12V30F	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
12V38F	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
12V62F	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
12V92F	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
12V100FC	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
12V101F	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
12V125F	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
12V155FS	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
12V170FS	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
12V190F	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
12V30F	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
12V38F	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
12V62F	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
12V92F	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
12V100FC	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
12V101F	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
12V125F	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
12V155FS	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
12V170FS	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
12V190F	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



FRONT TERMINAL

Constant Power (Watts per cell) 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
12V30F	228.5	157.9	121.7	99.5	84.5	73.7	65.5	59.2	54.0	49.6	46.0	43.0	31.1	24.4	20.2	17.3	13.5	11.2	9.64	8.48	7.56	6.83	6.24	5.33	2.93
12V38F	298.9	199.6	150.6	121.8	102.8	89.5	79.2	71.3	64.9	59.6	55.0	51.3	36.7	28.8	23.7	20.3	15.8	13.1	11.3	10.0	8.97	8.14	7.49	6.48	3.62
12V62F	444.9	310.7	238.8	195.7	166.9	146.2	130.2	117.9	107.8	99.4	92.2	86.2	62.7	49.5	41.0	35.2	27.5	22.7	19.4	17.0	15.1	13.6	12.4	10.5	5.72
12V92F	506.2	377.4	309.4	261.1	226.7	200.7	180.2	164.2	150.9	139.6	130.0	121.9	89.3	70.8	58.8	50.6	39.6	32.7	27.9	24.6	22.0	19.7	18.1	15.6	8.73
12V100FC	579.2	428.7	349.5	298.0	260.8	232.4	210.0	191.7	176.6	163.9	153.0	143.7	106.2	84.7	70.5	60.6	47.4	39.0	33.1	28.8	25.5	22.8	20.7	17.6	9.41
12V101F	511.0	372.7	296.7	251.4	220.4	197.1	178.8	164.3	151.8	141.2	132.1	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
12V125F	531.1	430.6	360.4	312.7	278.9	253.2	232.2	213.8	197.3	182.6	169.2	159.2	115.8	93.2	77.8	67.0	52.8	43.9	37.7	32.9	29.3	26.4	24.0	20.4	10.5
12V155FS	762.2	568.9	470.7	407.3	360.7	323.6	294.1	270.0	249.5	231.7	215.9	202.4	149.5	118.8	99.2	85.3	67.2	55.8	47.8	41.9	37.3	33.7	30.7	26.1	14.0
12V170FS	873.4	656.2	545.4	474.6	420.2	377.5	342.2	312.3	288.1	266.2	247.6	231.7	169.2	134.1	111.6	95.7	74.9	61.7	52.6	45.9	40.8	36.7	33.4	28.4	15.5
12V190F	953.2	742.5	580.2	500.7	446.9	402.3	363.5	333.1	308.4	287.7	270.1	254.7	189.8	151.3	126.1	108.4	84.9	70.0	59.7	52.1	46.3	41.7	38.0	32.4	17.5

Constant Power (Watts per cell) 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
12V30F	228.5	157.8	121.7	99.5	84.5	73.7	65.5	59.2	54.0	49.6	46.0	43.0	31.1	24.4	20.2	17.3	13.5	11.2	9.64	8.48	7.56	6.83	6.24	5.33	2.93
12V38F	298.9	198.1	150.1	121.6	102.7	89.4	79.1	71.2	64.8	59.5	55.0	51.2	36.7	28.8	23.7	20.3	15.8	13.1	11.3	10.0	8.97	8.14	7.49	6.48	3.62
12V62F	444.9	310.7	238.8	195.7	166.9	146.2	130.2	117.9	107.8	99.4	92.2	86.2	62.7	49.5	41.0	35.2	27.5	22.7	19.4	17.0	15.1	13.6	12.4	10.5	5.72
12V92F	490.3	370.5	307.5	260.7	226.7	200.7	180.2	164.2	150.9	139.6	130.0	121.9	89.3	70.8	58.8	50.6	39.6	32.7	27.9	24.6	22.0	19.7	18.1	15.6	8.73
12V100FC	567.8	421.2	345.5	295.4	258.7	230.7	208.5	190.3	175.4	162.8	152.1	142.9	105.7	84.3	70.2	60.4	47.3	38.9	33.1	28.7	25.4	22.8	20.7	17.5	9.41
12V101F	511.0	372.7	296.7	251.4	220.4	197.1	178.8	164.3	151.8	141.2	132.1	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
12V125F	531.1	430.6	360.4	312.7	278.9	253.2	232.2	213.8	197.3	182.6	169.2	159.2	115.8	93.2	77.8	67.0	52.8	43.9	37.7	32.9	29.3	26.4	24.0	20.4	10.5
12V155FS	762.2	568.9	470.7	407.3	360.7	323.6	294.1	270.0	249.5	231.7	215.9	202.4	149.5	118.8	99.2	85.3	67.2	55.8	47.8	41.9	37.3	33.7	30.7	26.1	14.0
12V170FS	863.9	643.1	541.6	472.9	420.2	377.5	342.2	312.3	287.2	265.6	247.1	231.3	169.0	134.1	111.6	95.7	74.9	61.7	52.6	45.8	40.7	36.6	33.4	28.4	15.4
12V190F	937.5	728.2	573.2	499.8	446.0	401.3	362.8	332.8	308.2	287.5	270.0	254.6	189.8	151.3	126.1	108.4	84.9	70.0	59.6	52.0	46.2	41.6	37.9	32.4	17.5

Constant Power (Watts per cell) 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
12V30F	228.5	157.6	121.7	99.5	84.5	73.7	65.5	59.2	54.0	49.6	46.0	43.0	31.1	24.4	20.2	17.3	13.5	11.2	9.64	8.48	7.56	6.83	6.24	5.33	2.93
12V38F	298.9	196.9	149.7	121.5	102.6	89.3	79.0	71.1	64.7	59.4	54.9	51.1	36.7	28.7	23.7	20.3	15.8	13.1	11.3	10.0	8.97	8.14	7.49	6.48	3.62
12V62F	443.9	302.2	235.2	193.6	165.6	145.2	129.4	117.4	107.4	99.1	92.0	86.0	62.5	49.4	40.9	35.1	27.5	22.7	19.4	17.0	15.1	13.6	12.4	10.5	5.72
12V92F	479.6	365.7	305.3	260.0	226.2	200.5	180.2	164.2	150.9	139.6	130.0	121.9	89.3	70.8	58.8	50.6	39.6	32.7	27.9	24.6	22.0	19.7	18.1	15.6	8.73
12V100FC	556.6	414.7	341.9	292.7	256.7	229.0	207.0	189.0	174.3	161.9	151.3	142.2	105.3	84.0	70.0	60.2	47.2	38.8	33.0	28.7	25.4	22.8	20.7	17.5	9.40
12V101F	511.0	372.7	296.7	251.4	220.4	197.1	178.8	164.3	151.8	141.2	132.1	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
12V125F	531.1	430.6	360.4	312.7	278.9	253.2	232.2	213.8	197.3	182.6	169.2	159.2	115.8	93.2	77.8	67.0	52.8	43.9	37.7	32.9	29.3	26.4	24.0	20.4	10.5
12V155FS	758.6	566.5	469.2	406.3	359.7	323.0	293.7	269.7	249.3	231.4	215.7	202.4	149.5	118.8	99.2	85.3	67.2	55.8	47.8	41.9	37.3	33.7	30.7	26.1	14.0
12V170FS	844.9	634.1	538.1	471.5	419.9	377.2	342.2	312.3	286.7	265.2	246.8	231.0	168.8	134.0	111.5	95.7	74.9	61.7	52.6	45.8	40.7	36.6	33.4	28.4	15.4
12V190F	924.6	710.5	566.8	497.7	444.4	399.9	362.3	332.3	307.7	287.2	269.6	254.3	189.5	151.2	126.0	108.4	84.9	70.0	59.6	52.0	46.2	41.6	37.9	32.4	17.5

Constant Power (Watts per cell) 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
12V30F	228.5	157.4	121.5	99.4	84.5	73.7	65.5	59.2	54.0	49.6	46.0	43.0	31.1	24.4	20.2	17.3	13.5	11.2	9.64	8.48	7.56	6.83	6.24	5.33	2.93
12V38F	298.9	195.4	149.3	121.2	102.5	89.2	78.9	71.1	64.7	59.3	54.9	51.1	36.6	28.7	23.6	20.2	15.8	13.1	11.3	10.0	8.97	8.14	7.49	6.48	3.62
12V62F	434.6	297.7	232.8	192.2	164.6	144.4	128.9	117.0	107.1	98.7	91.7	85.8	62.4	49.2	40.8	35.0	27.4	22.6	19.3	17.0	15.1	13.6	12.4	10.5	5.72
12V92F	469.0	360.3	302.7	258.5	225.5	200.0	179.8	164.1	150.9	139.3	130.0	121.7	89.3	70.7	58.7	50.5	39.6	32.7	27.9	24.6	21.9	19.7	18.1	15.6	8.73
12V100FC	541.9	407.6	337.2	289.2	253.9	226.7	205.0	187.4	172.8	160.5	150.2	141.1	104.8	83.6	69.7	60.0	47.0	38.7	32.9	28.6	25.3	22.7	20.6	17.5	9.39
12V101F	511.0	368.7	294.9	250.7	219.9	196.8	178.6	164.2	151.8	141.2	132.1	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
12V125F	531.1	425.5	355.7	308.8	276.4	251.9	231.3	213.1	196.9	182.1	168.8	159.0	115.8	93.2	77.8	67.0	52.8	43.9	37.7	32.9	29.3	26.4	24.0	20.4	10.5
12V155FS	752.9	559.9	466.0	404.7	358.6	322.2	293.2	269.4	249.0	231.2	215.5	202.2	149.5	118.8	99.2	85.3	67.2	55.8	47.8	41.9	37.3	33.7	30.7	26.1	14.0
12V170FS	822.6	626.1	533.3	468.8	418.3	376.4	341.3	311.6	286.1	264.5	246.3	230.6	168.6	133.8	111.4	95.6	74.8	61.6	52.5	45.8	40.6	36.6	33.4	28.4	15.4
12V190F	910.6	687.6	561.5	494.6	441.9	397.7	360.8	331.3	307.1	286.8	269.3	253.9	189.2	150.9	125.8	108.2	84.8	70.0	59.5	52.0	46.1	41.6	37.9	32.3	17.5

Constant Power Discharge Performance Data



FRONT TERMINAL

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
12V30F	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
12V38F	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
12V62F	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
12V92F	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
12V100FC	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
12V101F	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
12V125F	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
12V155FS	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
12V170FS	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
12V190F	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
12V30F	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
12V38F	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
12V62F	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
12V92F	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
12V100FC	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
12V101F	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
12V125F	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
12V155FS	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
12V170FS	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
12V190F	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
12V30F	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
12V38F	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
12V62F	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
12V92F	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
12V100FC	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
12V101F	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
12V125F	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
12V155FS	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
12V170FS	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
12V190F	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
12V30F	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
12V38F	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
12V62F	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
12V92F	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
12V100FC	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
12V101F	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
12V125F	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
12V155FS	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
12V170FS	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
12V190F	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



FRONT TERMINAL

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
12V30F	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
12V38F	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
12V62F	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
12V92F	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
12V100FC	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
12V101F	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
12V125F	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
12V155FS	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
12V170FS	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
12V190F	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
12V30F	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
12V38F	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
12V62F	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
12V92F	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
12V100FC	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
12V101F	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
12V125F	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
12V155FS	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
12V170FS	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
12V190F	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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