

**PowerSafe**<sup>®</sup>  
FRONT TERMINAL



PERFORMANCE DATA

**EnerSys**<sup>®</sup>

Power/Full Solutions

RESERVE  
POWER

# 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
12V30F	156.0	94.6	69.8	56.1	47.2	40.9	36.3	32.6	29.6	27.2	25.2	23.5	16.8	13.1	10.8	9.23	7.15	5.85	4.95	4.29	3.90	3.49	3.16	2.60	1.30
12V38F	179.0	109.0	80.6	64.6	54.3	47.0	41.5	37.3	33.9	31.1	28.7	26.7	19.0	14.9	12.3	10.5	8.18	6.72	5.71	4.98	4.56	4.30	4.10	3.10	1.60
12V62F	283.0	190.0	145.0	118.0	93.0	86.9	70.6	69.2	57.4	54.1	48.7	46.5	35.2	27.1	22.8	18.8	14.5	11.8	10.0	8.68	7.68	6.89	6.25	5.30	2.85
12V92F	360.0	245.0	188.0	154.0	131.0	114.0	102.0	91.4	83.2	76.5	70.7	65.8	46.9	36.7	30.3	25.8	20.1	16.5	14.1	12.4	11.3	10.3	9.36	7.80	4.40
12V100FC	254.7	254.7	207.5	179.4	152.6	133.5	119.5	107.0	97.7	89.7	83.1	77.5	55.4	43.3	35.8	30.4	23.6	19.4	16.5	14.5	12.7	11.6	10.4	8.90	4.90
12V101F	305.2	211.2	165.0	141.9	123.3	108.5	97.8	88.8	81.8	75.7	70.5	68.2	48.3	38.6	32.3	28.0	22.1	18.2	15.8	13.7	12.5	11.2	10.3	8.60	4.20
12V125F	360.8	283.2	229.6	193.2	166.8	147.4	134.2	118.7	106.3	99.3	92.3	85.3	62.5	48.8	41.1	35.1	28.1	23.3	20.1	17.4	15.4	13.7	12.4	10.5	5.28
12V155FS	478.8	339.2	269.8	230.5	202.0	179.1	161.2	146.2	133.8	123.6	117.2	106.4	77.3	61.4	50.9	43.7	34.3	28.4	24.3	21.4	19.1	17.1	15.6	13.2	7.04
12V170FS	367.5	367.5	319.0	281.2	241.3	211.9	189.0	171.1	156.7	144.5	134.3	125.5	90.8	71.7	59.3	50.7	39.5	32.5	27.7	24.2	21.5	19.3	17.6	14.9	8.12
12V170F	632.4	457.2	347.3	276.1	231.0	199.7	176.1	158.0	143.7	132.1	122.3	114.0	81.8	64.7	53.8	46.3	36.4	30.3	26.3	23.2	20.7	18.6	17.0	14.5	8.16
12V190F	413.7	413.7	356.9	311.8	267.3	235.0	210.0	190.1	174.2	160.9	149.6	140.0	101.3	79.9	66.2	56.6	44.2	36.3	31.0	27.0	24.0	21.6	19.7	16.8	9.10

## 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	155.0	93.7	69.2	55.6	46.8	40.6	35.9	32.3	29.4	27.0	25.0	23.3	16.6	13.0	10.8	9.19	7.12	5.82	4.93	4.28	3.89	3.48	3.15	2.60	1.30
12V38F	175.0	108.0	80.1	64.3	54.1	46.8	41.4	37.1	33.7	30.9	28.5	26.6	18.9	14.8	12.2	10.4	8.08	6.64	5.64	4.92	4.50	4.25	4.06	3.00	1.60
12V62F	274.0	186.0	143.0	116.0	98.8	86.0	76.3	68.6	62.4	56.9	52.6	46.2	34.7	27.0	20.9	18.8	14.5	11.8	10.0	8.65	7.65	6.87	6.23	5.87	2.83
12V92F	348.0	239.0	185.0	152.0	129.0	113.0	100.0	90.5	82.5	75.8	70.2	65.4	46.7	36.5	30.2	25.7	20.0	16.5	14.1	12.3	11.3	10.2	9.34	7.80	4.40
12V100FC	248.7	248.7	204.1	177.1	150.3	132.4	117.2	106.0	97.1	88.9	82.4	77.2	55.0	43.2	35.6	30.3	23.5	19.3	16.5	14.4	12.7	11.4	10.4	8.90	4.84
12V101F	305.2	211.2	165.0	141.9	123.3	108.5	97.8	88.8	81.8	75.7	70.5	68.2	48.3	38.6	32.3	28.0	22.1	18.2	15.8	13.7	12.5	11.2	10.3	8.60	4.20
12V125F	360.8	283.2	229.6	193.2	166.8	147.4	134.2	118.7	106.3	99.3	92.3	85.3	62.4	48.8	41.0	35.0	27.9	23.2	20.0	17.4	15.4	13.7	12.4	10.5	5.28
12V155FS	478.8	339.2	269.8	230.5	202.0	179.1	161.2	146.2	133.8	123.6	117.2	106.4	77.3	61.4	50.9	43.7	34.3	28.4	24.3	21.4	19.1	17.1	15.5	13.2	7.03
12V170FS	362.7	362.7	314.9	278.3	239.2	210.1	178.8	170.2	155.8	143.9	133.8	125.1	90.6	71.5	59.1	50.6	39.4	32.4	27.6	24.1	21.4	19.3	17.5	14.9	8.12
12V170F	608.2	444.3	344.1	276.1	231.0	199.7	176.1	158.0	143.7	132.1	122.3	114.0	81.8	64.7	53.8	46.3	36.4	30.3	26.3	23.2	20.7	18.6	17.0	14.5	8.16
12V190F	409.0	409.0	352.1	308.1	264.7	233.3	208.6	189.2	173.5	160.4	149.1	139.4	101.1	79.8	66.2	56.6	44.2	36.3	31.0	27.0	24.0	21.6	19.7	16.7	9.10

## 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	155.0	93.0	68.7	55.2	46.5	40.3	35.7	32.1	29.2	26.9	24.9	23.2	16.6	13.0	10.7	9.15	7.10	5.80	4.92	4.26	3.88	3.47	3.14	2.60	1.30
12V38F	173.0	107.0	79.7	64.1	53.9	46.6	41.2	37.0	33.6	30.9	28.5	26.5	18.8	14.7	12.1	10.3	8.02	6.58	5.60	4.88	4.47	4.22	4.03	3.00	1.60
12V62F	267.0	183.0	141.0	115.0	97.9	85.3	75.7	68.2	62.0	56.7	52.4	46.0	34.6	26.9	20.9	18.7	14.4	11.8	10.0	8.64	7.64	6.85	6.22	5.86	2.82
12V92F	340.0	235.0	182.0	151.0	128.0	111.0	99.6	89.9	81.9	75.4	69.8	65.0	45.6	36.4	30.1	25.7	20.0	16.5	14.1	12.3	11.3	10.2	9.32	7.70	4.40
12V100FC	244.1	244.1	201.3	175.1	148.4	131.3	117.8	106.3	96.5	88.2	81.8	76.8	54.7	43.0	35.4	30.2	23.4	19.2	16.4	14.3	12.6	11.4	10.3	8.84	4.83
12V101F	305.2	211.2	165.0	141.9	123.3	108.5	97.8	88.8	81.8	75.7	70.5	68.2	48.3	38.6	32.3	28.0	22.1	18.2	15.8	13.7	12.5	11.2	10.3	8.60	4.20
12V125F	360.8	283.2	229.6	193.2	166.8	147.4	134.2	118.7	106.3	99.3	92.3	85.3	62.3	48.8	41.0	34.9	27.8	23.1	19.9	17.4	15.4	13.7	12.4	10.5	5.28
12V155FS	478.8	333.6	266.6	228.4	200.5	178.1	160.4	145.6	133.4	123.3	117.0	106.4	77.3	61.4	50.9	43.7	34.3	28.4	24.3	21.4	19.1	17.1	15.5	13.2	7.03
12V170FS	358.2	358.2	311.2	275.4	237.1	208.5	186.6	169.2	155.0	143.2	133.2	124.6	90.3	71.3	59.0	50.5	39.4	32.4	27.6	24.1	21.4	19.2	17.5	14.9	8.10
12V170F	590.6	434.9	339.1	276.1	231.0	199.7	176.1	158.0	143.7	132.1	122.3	114.0	81.8	64.7	53.8	46.3	36.4	30.3	26.3	23.2	20.7	18.6	17.0	14.5	8.16
12V190F	404.5	404.5	348.0	305.1	262.5	231.6	207.2	188.0	172.6	159.5	148.4	138.8	100.8	79.6	66.0	56.5	44.1	36.3	30.9	27.0	24.0	21.6	19.6	16.7	9.10

## 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	153.0	92.3	68.1	54.7	46.1	40.0	35.4	31.9	29.0	26.7	24.7	23.0	16.5	12.9	10.7	9.12	7.07	5.79	4.90	4.25	3.87	3.46	3.13	2.55	1.30
12V38F	169.0	106.0	79.3	63.8	53.7	46.5	41.1	36.9	33.5	30.7	28.4	26.4	18.7	14.6	12.0	10.3	7.96	6.53	5.56	4.84	4.43	4.19	4.00	3.00	1.60
12V62F	260.3	179.2	139.0	114.0	96.9	84.6	75.1	67.7	61.6	56.3	52.1	45.8	34.4	26.9	20.8	18.7	14.4	11.8	9.94	8.62	7.63	6.84	6.21	5.85	2.82
12V92F	332.0	230.0	180.0	148.0	127.0	111.0	98.7	89.1	81.3	74.8	69.4	64.6	46.3	36.3	30.0	25.6	20.0	16.4	14.0	12.3	11.3	10.2	9.30	7.70	4.30
12V100FC	238.9	238.9	198.0	172.8	148.2	129.9	115.5	104.3	95.7	87.4	81.1	76.3	54.4	42.8	35.2	30.1	23.3	19.1	16.3	14.3	12.6	11.3	10.3	8.81	4.81
12V101F	298.1	208.3	163.4	140.9	122.5	108.0	97.4	88.5	81.6	75.5	70.4	68.2	48.3	38.6	32.3	28.0	22.1	18.2	15.8	13.7	12.5	11.2	10.3	8.60	4.20
12V125F	355.5	276.1	225.0	189.8	165.5	145.5	132.6	118.7	106.3	99.3	92.3	85.3	62.5	48.8	41.0	34.9	27.8	23.1	19.9	17.4	15.4	13.7	12.4	10.5	5.28
12V155FS	464.3	327.9	263.4	226.3	199.0	177.0	159.6	145.0	132.9	122.9	116.8	106.4	77.3	61.4	50.9	43.7	34.3	28.4	24.3	21.4	19.1	17.1	15.5	13.2	7.03
12V170FS	352.8	352.8	306.8	272.0	234.6	206.6	185.1	168.0	154.0	142.3	132.4	123.9	90.0	71.1	58.9	50.4	39.3	32.3	27.6	24.0	21.4	19.2	17.5	14.9	8.08
12V170F	571.5	424.4	332.7	273.9	231.0	199.7	176.1	158.0	143.7	132.1	122.3	114.0	81.8	64.7	53.8	46.3	36.4	30.3	26.3	23.2	20.7	18.6	17.0	14.5	8.16
12V190F	399.1	399.1	343.1	301.5	259.9	229.6	205.4	186.7	171.5	158.5	147.5	138.0	100.4	79.3	65.8	56.3	44.0	36.2	30.8	26.9	23.9	21.5	19.6	16.7	9.10

**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	152.9	91.6	67.5	54.3	45.7	39.7	35.2	31.6	28.8	26.5	24.5	22.9	16.4	12.9	10.7	9.10	7.10	5.80	4.90	4.20	3.70	3.40	3.00	2.50	1.30
12V38F	165.6	106.2	78.7	63.5	53.5	46.3	40.9	36.8	33.3	30.6	28.3	26.3	18.6	14.5	12.0	10.2	7.90	6.50	5.50	4.80	4.30	3.80	3.50	3.00	1.60
12V62F	252.0	172.9	134.7	111.1	94.9	83.0	73.9	66.7	60.8	55.8	51.7	45.6	34.3	26.7	21.9	18.6	14.4	11.7	10.2	8.60	7.60	6.80	6.20	5.84	2.82
12V92F	323.0	226.4	176.8	146.1	125.1	109.6	97.7	88.3	80.7	74.3	68.9	62.4	46.1	36.2	29.9	25.6	19.9	16.4	14.0	12.3	10.9	9.90	9.00	7.70	4.30
12V100FC	230.0	230.0	191.5	167.8	144.2	126.8	113.4	102.7	93.9	86.6	80.4	75.1	54.0	42.4	35.1	29.9	23.3	19.1	16.3	14.2	12.6	11.3	10.3	8.80	4.80
12V101F	290.4	205.1	161.6	139.6	121.6	107.4	96.9	88.1	81.3	75.3	70.2	68.2	48.3	38.6	32.3	28.0	22.1	18.2	15.8	13.7	12.5	11.2	10.3	8.60	4.20
12V125F	350.2	268.9	220.3	186.3	164.3	143.7	131.1	118.7	106.3	99.3	92.3	85.3	62.7	48.8	41.0	34.9	27.8	23.1	19.9	17.4	15.4	13.7	12.4	10.5	5.28
12V155FS	449.7	322.1	260.0	224.0	197.4	175.7	158.6	144.3	132.3	122.4	116.4	106.4	77.3	61.4	50.9	43.7	34.3	28.4	24.3	21.4	19.1	17.1	15.5	13.2	7.03
12V170FS	346.5	346.5	301.6	268.1	231.6	204.3	183.3	166.5	152.8	141.3	131.5	123.1	89.5	70.8	58.6	50.2	39.2	32.2	27.5	24.0	21.3	19.1	17.4	14.8	8.05
12V170F	551.2	413.0	325.9	269.8	229.9	199.7	176.1	158.0	143.7	132.1	122.3	114.0	81.8	64.7	53.8	46.3	36.4	30.3	26.3	23.2	20.7	18.6	17.0	14.5	8.16
12V190F	392.5	392.5	337.6	297.3	256.9	227.1	203.6	185.2	170.1	157.3	146.5	137.1	99.9	79.0	65.6	56.2	43.8	36.1	30.8	26.9	23.9	21.5	19.6	16.7	9.10

**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	152.0	90.8	66.9	53.7	45.3	39.3	34.9	31.4	28.6	26.3	24.4	22.7	16.3	12.8	10.6	9.10	7.00	5.80	4.90	4.20	3.70	3.30	3.00	2.50	1.30
12V38F	161.7	103.9	78.1	63.1	53.2	46.1	40.8	36.6	33.3	30.5	28.2	26.2	18.5	14.5	11.9	10.1	7.80	6.40	5.50	4.80	4.20	3.80	3.50	3.00	1.60
12V62F	240.0	169.3	132.5	109.5	93.7	82.1	73.1	66.0	60.2	55.4	51.3	45.4	34.1	26.6	21.9	18.6	14.4	11.7	10.2	8.59	7.59	6.79	6.19	5.83	2.79
12V92F	314.0	221.6	173.7	143.9	123.4	108.3	96.7	87.5	79.9	73.7	68.3	63.8	45.9	36.1	29.8	25.5	19.9	16.4	14.0	12.2	10.9	9.90	9.00	7.70	4.30
12V100FC	224.0	224.0	187.6	164.8	142.0	125.1	112.0	101.5	92.9	85.7	79.6	74.4	53.6	42.2	34.9	29.8	22.2	19.0	16.2	14.1	12.5	11.3	10.3	8.70	4.80
12V101F	282.0	201.6	159.6	138.2	120.6	106.6	96.3	87.6	80.9	74.9	69.9	68.1	48.3	38.6	32.3	28.0	22.0	18.1	15.7	13.7	12.5	11.2	10.3	8.60	4.20
12V125F	341.9	261.9	215.5	182.8	162.3	141.6	129.4	117.9	105.6	98.7	91.7	84.8	62.2	48.5	40.7	34.7	27.7	23.0	19.9	17.4	15.4	13.7	12.4	10.5	5.28
12V155FS	434.6	315.9	256.3	221.4	195.5	174.3	157.4	143.3	131.6	121.8	115.9	106.0	77.0	61.2	50.7	43.6	34.3	28.4	24.3	21.4	19.0	17.1	15.5	13.2	7.03
12V170FS	339.1	339.1	296.0	263.8	228.3	201.8	181.3	164.8	151.3	140.1	130.5	122.2	89.0	70.4	58.4	50.0	39.0	32.1	27.4	23.9	21.2	19.1	17.3	14.7	8.02
12V170F	529.6	400.6	318.6	264.7	226.9	198.4	176.0	158.0	143.7	132.1	122.3	114.0	81.8	64.7	53.8	46.3	36.4	30.3	26.3	23.2	20.7	18.6	17.0	14.5	8.16
12V190F	384.9	384.9	331.5	292.6	253.5	224.3	201.4	183.3	168.5	155.9	145.3	136.0	99.3	78.6	65.3	55.9	43.6	35.9	30.6	26.8	23.8	21.4	19.5	16.7	9.00

**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	151.1	89.9	66.2	53.2	44.8	38.9	34.5	31.1	28.3	26.1	24.2	22.5	16.2	12.8	10.6	9.00	7.00	5.70	4.90	4.20	3.70	3.30	3.00	2.50	1.20
12V38F	157.4	102.6	77.5	62.7	52.9	45.9	40.6	36.5	33.1	30.4	28.1	26.1	18.5	14.4	11.8	10.0	7.80	6.40	5.40	4.70	4.20	3.80	3.50	2.90	1.60
12V62F	233.0	165.6	130.1	107.8	92.4	81.1	72.3	65.4	59.7	54.9	50.9	45.2	33.9	26.5	21.8	18.5	14.3	11.7	10.2	8.58	7.58	6.79	6.17	5.82	2.79
12V92F	304.7	216.6	170.5	141.6	121.7	106.9	95.6	86.5	79.2	73.0	67.8	63.3	45.6	35.9	29.7	25.5	19.9	16.4	13.9	12.2	10.9	9.80	9.00	7.70	4.30
12V100FC	217.9	217.9	183.4	161.7	139.6	123.2	110.4	100.2	91.8	84.7	78.8	73.6	53.2	41.9	34.6	29.6	23.0	18.9	16.1	14.1	12.5	11.2	10.2	8.70	4.70
12V101F	272.9	197.6	157.3	136.5	119.3	105.6	95.5	87.0	80.4	74.5	69.5	68.1	48.0	38.3	32.1	27.8	21.9	18.0	15.6	13.6	12.5	11.2	10.2	8.60	4.20
12V125F	330.6	255.1	210.6	179.1	159.5	139.5	127.5	116.4	104.4	97.4	90.4	83.9	60.9	47.9	40.3	34.4	27.5	22.8	19.7	17.3	15.3	13.7	12.4	10.5	5.28
12V155FS	418.8	309.1	252.1	218.4	193.2	172.5	156.0	142.1	130.5	120.9	115.2	105.4	76.6	60.9	50.5	43.4	34.1	28.3	24.2	21.2	18.9	17.1	15.5	13.2	7.03
12V170FS	331.5	331.5	289.9	259.1	224.7	199.1	179.1	163.0	149.8	138.7	129.3	121.1	88.4	69.9	58.1	49.8	38.8	31.9	27.2	23.8	21.1	19.0	17.3	14.7	7.99
12V170F	507.4	387.0	310.2	259.0	222.7	195.6	174.3	157.4	143.7	132.1	122.3	114.0	81.8	64.7	53.8	46.3	36.4	30.3	26.3	23.2	20.7	18.6	17.0	14.5	8.16
12V190F	376.5	376.5	324.7	287.5	249.8	221.3	198.8	181.2	166.7	154.4	143.9	134.8	98.6	78.1	64.9	55.7	43.5	35.8	30.5	26.5	23.7	21.3	19.4	16.5	9.00

**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	150.0	88.9	65.4	52.6	44.3	38.5	34.2	30.8	28.1	25.8	23.9	22.3	16.1	12.7	10.5	8.98	6.98	5.72	4.85	4.20	3.82	3.41	3.08	2.50	1.20
12V38F	153.0	101.0	76.8	62.3	52.7	45.7	40.5	36.3	33.0	30.3	27.9	26.0	18.4	14.3	11.7	10.0	7.73	6.33	5.38	4.69	4.30	4.06	3.88	2.90	1.60
12V62F	231.0	164.0	129.0	107.0	92.0	80.7	72.0	65.1	59.5	54.4	50.4	45.1	33.7	26.5	21.7	18.5	14.3	11.7	9.90	8.59	7.59	6.81	6.18	5.80	2.77
12V92F	295.0	211.0	167.0	139.0	120.0	105.0	94.4	85.6	78.3	72.3	67.2	62.7	45.4	35.7	29.6	25.4	19.8	16.3	13.9	12.2	11.2	10.1	9.21	7.60	4.20
12V100FC	214.0	214.0	181.0	159.9	138.1	122.2	109.8	99.6	91.2	83.7	77.9	73.2	52.7	41.6	34.4	29.4	22.9	18.8	16.0	14.0	12.3	11.1	10.1	8.70	4.70
12V101F	262.9	193.0	154.6	134.4	117.8	104.3	94.5	86.1	79.6	73.9	69.0	68.0	47.6	38.0	31.9	27.6	21.8	17.9	15.5	13.6	12.5	11.1	10.2	8.60	4.20
12V125F	319.4	248.3	205.6	175.3	156.7	137.3	125.7	114.8	103.2	96.2	89.2	83.0	59.6	47.3	39.8	34.1	27.3	22.6	19.6	17.3	15.3	13.7	12.4	10.5	5.28
12V155FS	402.1	301.6	247.4	214.9	190.5	170.3	154.2	140.6	129.2	119.8	114.2	104.5	76.0	60.5	50.1	43.0	33.9	28.1	24.0	21.1	18.8	17.0	15.4	13.1	6.98
12V170FS	322.6	322.6	283.4	254.0	220.9	196.1	176.7	161.0	148.1	137.2	127.9	119.9	87.7	69.5	57.7	49.5	38.6	31.8	27.1	23.7	21.0	18.9	17.2	14.6	7.95
12V170F	484.2	372.4	301.0	252.4	217.9	191.8	171.5	155.3	142.1	131.2	121.9	113.8	81.8	64.7	53.8	46.3	36.4	30.3	26.3	23.2	20.7	18.6	17.0	14.5	8.16
12V190F	367.1	367.1	317.3	282.0	245.7	217.9	196.2	178.9	164.7	152.7	142.3	133.5	97.8	77.6	64.5	55.3	43.2	35.6	30.3	26.5	23.5	21.2	19.3	16.5	9.00

### 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	148.0	86.5	63.5	51.0	43.1	37.4	33.3	30.0	27.4	25.2	23.4	21.9	15.8	12.5	10.4	8.89	6.93	5.68	4.81	4.17	3.79	3.38	3.05	2.40	1.20
12V38F	151.0	97.1	74.8	61.2	51.9	45.1	40.0	36.0	32.7	29.9	27.7	25.7	18.2	14.1	11.6	9.8	7.59	6.21	5.27	4.60	4.21	3.99	3.81	2.90	1.60
12V62F	212.0	154.0	122.0	102.0	88.2	77.8	69.7	63.2	57.9	53.0	49.3	43.6	33.2	26.2	21.5	18.4	14.3	11.7	9.9	8.58	7.59	6.80	6.17	5.79	2.74
12V92F	272.0	198.0	158.0	132.0	115.0	101.0	91.3	83.0	76.1	70.4	65.5	61.3	44.6	35.3	29.4	25.2	19.7	16.2	13.9	12.1	11.1	10.0	9.15	7.58	4.20
12V100FC	195.8	195.8	167.8	149.6	130.3	115.6	104.5	95.0	87.2	80.9	75.4	70.4	51.5	40.6	33.8	28.9	22.5	18.5	15.9	13.8	12.2	11.0	10.0	8.60	4.60
12V101F	233.1	178.7	145.5	127.5	112.3	99.9	90.7	82.9	76.8	71.3	66.7	66.0	46.1	36.8	30.9	26.7	21.3	17.7	15.2	13.4	12.0	10.9	10.0	8.40	4.20
12V125F	290.0	220.3	185.4	160.6	143.5	127.2	117.1	107.0	97.0	90.7	84.5	78.3	57.6	45.7	38.6	33.3	26.5	21.9	18.9	16.7	15.0	13.6	12.4	10.5	5.28
12V155FS	354.7	278.7	232.1	203.3	181.1	162.5	147.6	134.9	124.2	115.3	110.2	101.0	73.5	58.2	48.4	41.7	32.8	27.2	23.3	20.4	18.2	16.4	15.0	12.7	6.78
12V170FS	297.9	297.9	265.1	239.7	209.8	187.5	169.8	155.2	143.1	132.9	124.0	116.4	85.6	68.0	56.6	48.6	38.0	31.3	26.7	23.3	20.6	18.6	17.0	14.4	7.82
12V170F	422.2	332.4	273.2	232.3	202.4	179.4	161.4	146.9	135.1	125.2	116.7	109.3	79.8	63.6	53.2	45.9	36.2	30.3	26.3	23.2	20.7	18.6	17.0	14.5	8.16
12V190F	339.4	339.4	297.3	266.6	234.4	208.5	188.7	172.6	159.1	147.8	137.9	129.5	95.6	76.0	63.3	54.3	42.5	35.0	29.8	26.1	23.2	20.8	19.0	16.2	8.80

### 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	146.0	83.9	61.4	49.3	41.6	36.3	32.3	29.2	26.6	24.6	22.8	21.4	15.5	12.3	10.3	8.80	6.87	5.64	4.78	4.14	3.75	3.35	3.02	2.44	1.20
12V38F	148.0	92.7	72.6	59.9	51.0	44.5	39.5	35.5	32.3	29.6	27.4	25.5	17.9	13.9	11.4	9.66	7.45	6.09	5.17	4.51	4.00	3.91	3.74	2.82	1.60
12V62F	193.0	143.0	115.0	97.0	84.2	74.6	67.1	61.1	56.1	51.5	47.9	42.5	32.6	25.9	21.3	18.3	14.2	11.7	9.88	8.58	7.59	6.80	6.17	5.78	2.71
12V92F	248.0	184.0	149.0	126.0	110.0	97.4	87.8	80.1	73.7	68.3	63.7	59.7	43.8	34.8	29.0	24.9	19.6	16.1	13.8	12.1	11.1	10.0	9.08	7.57	4.10
12V100FC	176.3	176.3	153.3	138.0	120.5	108.1	97.4	88.9	82.5	77.9	72.7	67.2	50.1	39.4	33.2	28.2	22.1	18.2	15.6	13.6	12.0	10.8	9.80	8.40	4.60
12V101F	195.3	159.1	132.3	117.0	103.8	92.8	84.6	77.5	72.0	67.0	62.8	61.5	43.4	34.7	29.1	25.2	20.1	16.8	14.6	12.9	11.5	10.3	9.40	8.00	4.20
12V125F	248.3	187.7	159.8	138.9	124.9	110.9	103.2	84.6	86.1	80.7	76.0	70.6	53.1	41.9	35.4	30.2	24.3	20.1	17.6	15.5	13.9	12.6	11.5	9.84	5.28
12V155FS	296.1	247.8	210.3	186.1	166.8	150.4	137.0	125.5	115.8	107.7	103.2	94.8	69.1	54.7	45.6	39.2	30.9	25.6	22.0	19.3	17.2	15.5	14.1	12.0	6.40
12V170FS	270.0	270.0	240.6	221.1	194.3	174.7	160.7	146.6	135.5	126.3	117.9	110.6	81.7	65.5	54.7	47.0	36.7	30.3	25.8	22.5	20.0	18.0	16.4	13.9	7.63
12V170F	356.2	286.5	239.5	206.1	181.1	161.8	146.5	134.2	123.9	115.1	107.5	100.9	74.6	59.9	50.2	43.4	34.4	28.9	25.1	22.1	19.7	17.8	16.2	13.9	7.92
12V190F	307.1	307.1	272.5	248.5	219.4	196.3	179.1	163.3	150.8	149.7	139.9	123.0	96.6	73.2	63.9	52.5	41.1	33.9	28.9	25.3	22.4	20.2	18.4	15.8	8.40

**Constant Power Discharge (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	280.0	175.0	131.0	106.0	90.0	79.0	69.9	63.1	57.5	53.0	49.2	45.8	33.0	25.9	21.5	18.3	14.2	11.7	9.89	8.58	7.81	6.96	6.32	5.20	2.60
12V38F	319.0	201.0	151.0	122.0	104.0	90.0	80.1	72.2	65.8	60.4	56.1	52.2	37.5	29.5	24.4	20.9	16.3	13.4	11.4	9.94	9.10	8.60	8.19	6.10	3.30
12V62F	495.0	344.0	268.0	221.0	189.0	165.0	147.0	133.0	121.0	109.7	101.7	89.6	67.7	53.5	43.6	37.5	28.9	23.7	20.0	17.4	15.4	13.9	12.6	10.6	5.60
12V92F	627.0	442.0	346.0	286.0	246.0	215.0	193.0	175.0	159.0	147.3	136.8	127.0	91.9	72.3	60.0	51.3	40.1	33.1	28.3	24.8	22.8	20.6	18.9	15.7	8.80
12V100FC	453.5	453.5	377.7	331.0	284.7	248.8	223.3	202.5	186.1	167.5	155.4	149.1	104.1	84.8	67.2	60.0	46.8	38.5	32.9	28.8	25.4	22.9	20.8	16.3	8.90
12V101F	503.8	364.9	296.4	257.6	225.8	200.7	181.9	166.2	154.0	143.3	134.2	130.2	92.6	74.2	62.4	54.2	42.8	35.2	30.6	26.6	24.3	21.8	20.0	16.7	8.19
12V125F	645.6	498.9	412.0	351.5	311.9	272.3	249.8	227.3	204.8	191.6	178.4	165.2	119.2	93.8	79.3	68.2	54.0	45.0	38.7	34.1	30.3	27.1	24.4	20.9	10.5
12V155FS	790.0	576.6	481.7	416.3	368.8	330.4	299.1	273.1	251.5	233.6	222.9	203.3	148.3	117.7	98.3	84.6	66.5	55.2	47.3	41.5	37.1	33.3	30.3	25.7	13.7
12V170FS	623.1	623.1	575.2	514.0	447.8	396.6	355.9	323.6	297.4	274.6	255.5	239.5	175.6	140.2	116.4	100.1	78.2	64.4	54.9	48.0	42.7	38.4	35.0	29.6	16.1
12V170F	1019.5	772.9	610.8	498.7	423.3	369.4	328.4	297.4	271.9	250.6	232.5	216.8	157.7	124.8	104.1	89.7	71.0	59.0	50.9	45.0	40.4	36.6	33.3	28.5	16.6
12V190F	802.8	802.8	680.6	603.1	511.6	463.3	410.5	373.3	348.0	332.0	309.0	280.7	210.0	161.4	138.5	114.7	89.4	73.4	62.8	54.9	48.2	44.0	39.4	34.7	18.5

**Constant Power Discharge (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	279.0	173.0	129.0	105.0	90.0	77.9	69.4	62.6	57.1	52.6	48.8	45.5	32.8	25.8	21.4	18.2	14.2	11.6	9.89	8.58	7.78	6.97	6.30	5.20	2.50
12V38F	313.0	199.0	150.0	122.0	103.0	89.8	79.8	71.9	65.4	60.3	55.8	51.9	37.2	29.2	24.2	20.7	16.1	13.2	11.4	9.94	8.99	8.52	8.10	6.10	3.30
12V62F	478.0	336.0	263.0	218.0	187.0	163.0	146.0	132.0	120.0	109.0	101.0	89.1	67.5	53.3	43.5	37.3	28.9	23.6	20.0	17.4	15.4	13.8	12.5	10.6	5.60
12V92F	607.0	432.0	339.0	282.0	243.0	213.0	191.0	173.0	158.0	146.3	135.8	126.0	91.6	72.0	59.9	51.2	40.0	33.0	28.3	24.8	22.8	20.6	18.8	15.7	8.80
12V100FC	445.4	445.4	373.0	327.8	282.4	247.6	222.0	201.1	185.3	167.4	155.5	148.5	104.8	84.5	68.1	59.9	46.6	38.3	32.9	28.8	25.3	22.8	20.7	16.9	9.10
12V101F	503.8	364.9	296.4	257.6	225.8	200.7	181.9	166.2	154.0	143.3	134.2	130.2	92.6	74.2	62.4	54.2	42.8	35.2	30.6	26.6	24.3	21.8	20.0	16.7	8.19
12V125F	645.6	498.9	412.0	351.5	311.9	272.3	249.8	227.3	204.8	191.6	178.4	165.2	119.2	93.8	79.3	68.2	54.0	45.0	38.7	34.1	30.3	27.1	24.4	20.9	10.5
12V155FS	790.0	576.6	481.7	416.3	368.8	330.4	299.1	273.1	251.5	233.6	222.9	203.3	148.3	117.7	98.3	84.6	66.5	55.2	47.3	41.5	37.1	33.3	30.3	25.7	13.7
12V170FS	623.1	623.1	573.9	514.0	447.8	396.6	355.9	323.6	297.4	274.6	255.5	239.5	175.6	140.2	116.4	100.1	78.2	64.4	54.9	48.0	42.6	38.4	34.9	29.6	16.1
12V170F	985.1	759.1	603.4	498.5	423.3	369.4	328.4	297.4	271.9	250.6	232.5	216.8	157.7	124.8	104.1	89.7	71.0	59.0	50.9	45.0	40.4	36.6	33.3	28.5	16.6
12V190F	791.6	791.6	673.4	598.0	507.4	460.5	408.0	371.1	346.5	329.0	307.0	279.8	209.0	161.2	138.3	114.5	89.3	73.4	62.8	54.9	48.2	43.9	39.4	34.6	18.5

**Constant Power Discharge (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	278.0	173.0	129.0	105.0	89.0	77.6	69.0	62.3	56.8	52.4	48.6	45.3	32.7	25.7	21.3	18.2	14.2	11.6	9.84	8.54	7.77	6.96	6.29	5.10	2.60
12V38F	310.0	199.0	149.0	122.0	103.0	89.7	79.6	71.7	65.3	60.1	55.6	51.8	37.1	29.1	24.0	20.6	16.0	13.2	11.2	9.78	8.95	8.47	8.07	6.10	3.30
12V62F	473.0	333.0	261.0	216.0	185.0	162.0	145.0	131.0	120.0	108.5	100.6	88.8	67.2	53.2	43.3	37.3	28.8	23.6	20.0	17.4	15.4	13.8	12.5	10.5	5.60
12V92F	601.0	428.0	337.0	280.0	241.0	212.0	190.0	172.0	157.0	145.5	135.2	126.0	91.3	71.9	59.7	51.1	40.0	33.0	28.3	24.8	22.8	20.5	18.8	15.6	8.80
12V100FC	438.9	438.9	368.8	324.8	279.6	245.9	220.4	199.5	184.3	167.1	155.3	147.9	105.0	84.3	68.5	59.7	46.5	38.2	32.8	28.7	25.2	22.7	20.7	17.2	9.30
12V101F	503.8	364.9	296.4	257.6	225.8	200.7	181.9	166.2	154.0	143.3	134.2	130.2	92.6	74.2	62.4	54.2	42.8	35.2	30.6	26.6	24.3	21.8	20.0	16.7	8.19
12V125F	645.6	498.9	412.0	351.5	311.9	272.3	249.8	227.3	204.8	191.6	178.4	165.2	119.2	93.8	79.3	68.2	54.0	45.0	38.7	34.1	30.3	27.1	24.4	20.9	10.5
12V155FS	790.0	576.6	481.7	416.3	368.8	330.4	299.1	273.1	251.5	233.6	222.9	203.3	148.3	117.7	98.3	84.6	66.5	55.2	47.3	41.5	37.1	33.3	30.3	25.7	13.7
12V170FS	623.1	623.1	570.0	512.7	447.0	396.3	355.9	323.6	297.4	274.6	255.5	239.5	175.6	140.2	116.4	100.1	78.2	64.4	54.9	48.0	42.6	38.3	34.9	29.6	16.0
12V170F	961.7	747.8	596.3	496.6	423.3	369.4	328.4	297.4	271.9	250.6	232.5	216.8	157.7	124.8	104.1	89.7	71.0	59.0	50.9	45.0	40.4	36.6	33.3	28.5	16.6
12V190F	782.1	782.1	667.1	593.4	506.7	457.8	405.6	368.9	345.1	327.0	305.0	278.8	210.0	160.9	138.0	114.3	89.1	73.2	62.7	54.8	48.1	43.9	39.3	34.6	18.5

**Constant Power Discharge (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	278.0	171.0	128.0	104.0	88.4	77.0	68.6	61.9	56.4	52.1	48.3	45.0	32.5	25.6	21.2	18.1	14.1	11.6	9.81	8.52	7.74	6.96	6.27	5.10	2.60
12V38F	304.0	196.0	149.0	121.0	103.0	89.4	79.4	71.5	65.1	59.9	55.5	51.6	37.0	28.9	23.9	20.4	15.9	13.1	11.1	9.71	8.88	8.41	8.01	6.00	3.30
12V62F	461.0	327.0	257.0	214.0	184.0	161.0	144.0	130.0	119.0	107.9	100.1	88.4	67.0	53.0	43.2	37.2	28.8	23.5	20.0	17.3	15.4	13.8	12.5	10.5	5.60
12V92F	585.0	420.0	331.0	276.0	239.0	209.0	188.0	171.0	156.0	144.7	134.4	125.0	90.9	71.6	59.6	51.0	39.9	33.0	28.2	24.7	22.7	20.5	18.8	15.6	8.80
12V100FC	431.4	431.4	364.0	321.2	278.2	243.2	218.8	199.0	183.1	166.5	154.9	147.1	105.1	84.0	68.8	59.5	46.4	38.1	32.6	28.5	25.1	22.7	20.6	17.5	9.60
12V101F	503.8	364.9	296.4	257.6	225.8	200.7	181.9	166.2	154.0	143.3	134.2	130.2	92.6	74.2	62.4	54.2	42.8	35.2	30.6	26.6	24.3	21.8	20.0	16.7	8.19
12V125F	629.4	488.7	405.5	346.8	308.2	269.8	247.6	225.5	203.3	190.1	177.2	164.3	118.4	93.8	79.0	68.2	54.0	45.0	38.7	34.0	30.3	27.1	24.4	20.9	10.5
12V155FS	775.4	570.6	476.6	413.0	366.4	328.6	297.8	272.1	250.7	233.0	222.6	203.3	148.3	117.7	98.3	84.6	66.5	55.2	47.3	41.5	37.1	33.3	30.3	25.7	13.7
12V170FS	623.1	623.1	564.7	509.0	444.1	393.9	354.7	323.5	297.4	274.6	255.5	239.5	175.6	140.2	116.3	100.0	78.2	64.4	54.9	48.0	42.6	38.3	34.9	29.6	16.0
12V170F	938.7	733.5	588.6	492.3	422.6	369.4	328.4	297.4	271.9	250.6	232.5	216.8	157.7	124.8	104.1	89.7	71.0	59.0	50.9	45.0	40.4	36.6	33.3	28.5	16.6
12V190F	771.1	771.1	659.																						

**Constant Power Discharge (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	278.7	171.3	128.0	103.7	87.9	76.6	68.2	61.5	56.2	51.8	48.0	44.8	32.4	25.5	21.2	18.1	14.1	11.6	9.80	8.50	7.50	6.70	6.10	5.10	2.50
12V38F	301.1	196.3	148.9	121.1	102.6	89.4	79.3	71.4	65.0	59.8	55.3	57.5	36.8	28.8	23.8	20.3	15.8	13.0	11.1	9.60	8.60	7.70	7.00	6.00	3.30
12V62F	440.8	316.1	249.8	207.9	178.8	157.2	140.6	127.3	116.4	107.3	99.5	88.1	66.7	52.0	43.1	36.8	28.5	23.3	19.8	17.2	15.2	13.7	12.4	10.5	5.60
12V92F	579.3	416.2	329.6	275.0	257.1	209.0	187.2	169.8	155.6	143.7	133.6	124.9	90.6	71.6	59.9	51.0	39.9	33.0	28.2	24.7	22.0	19.9	18.2	15.6	8.70
12V100FC	416.7	416.7	352.5	312.0	270.0	239.0	214.7	195.2	179.2	165.7	154.3	144.4	105.0	83.1	69.0	59.2	46.3	38.2	32.6	28.5	25.3	22.9	20.8	17.8	9.80
12V101F	493.7	360.7	293.8	255.7	224.5	199.6	181.1	165.6	153.5	142.9	133.9	130.2	92.6	74.2	62.4	54.2	42.8	35.2	30.6	26.6	24.3	21.8	20.0	16.7	8.19
12V125F	613.3	478.4	399.0	342.2	304.5	267.4	245.5	223.6	201.7	188.5	175.9	163.4	117.7	93.8	78.8	68.2	54.0	45.0	38.7	33.9	30.3	27.0	24.4	20.9	10.5
12V155FS	760.0	564.3	471.6	409.5	363.8	326.5	296.3	270.9	249.7	232.3	222.0	203.3	148.3	117.7	98.3	84.6	66.5	55.2	47.3	41.5	37.1	33.3	30.3	25.7	13.7
12V170FS	623.1	623.1	558.7	504.0	439.6	390.0	352.0	321.1	295.0	274.0	255.4	239.1	175.6	139.6	116.1	99.6	78.0	64.1	54.7	47.8	42.5	38.2	34.8	29.6	16.6
12V170F	916.6	717.2	580.2	486.2	419.4	368.7	328.4	297.4	271.9	250.6	232.5	216.8	157.7	124.8	104.1	89.7	71.0	59.0	50.9	45.0	40.4	36.6	33.3	28.5	16.6
12V190F	743.2	743.2	642.4	574.7	496.8	446.3	397.9	363.0	337.9	321.7	299.8	272.0	206.1	159.3	136.7	113.6	88.8	73.0	63.3	54.7	47.3	43.9	38.9	33.9	18.0

**Constant Power Discharge (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	278.2	170.3	127.1	102.9	87.2	76.1	67.7	61.1	55.8	51.4	47.7	44.6	32.2	25.4	21.1	18.1	14.1	11.5	9.80	8.50	7.50	6.70	6.10	5.10	2.50
12V38F	295.2	194.5	148.1	120.7	102.3	89.1	79.1	71.2	64.9	59.6	55.2	51.4	36.7	28.7	23.7	20.2	15.7	12.9	10.9	9.60	8.50	7.70	7.00	6.00	3.30
12V62F	430.5	310.7	246.3	205.5	176.9	139.4	139.4	126.3	115.5	106.6	98.9	87.8	66.4	52.1	43.0	36.7	28.4	23.3	19.7	17.1	15.2	13.6	12.4	10.5	5.60
12V92F	566.3	409.1	325.0	271.7	234.5	185.6	185.6	168.5	154.5	142.7	132.8	124.2	90.2	71.4	59.3	50.9	39.9	32.9	28.2	24.7	22.0	19.9	18.2	15.5	8.70
12V100FC	408.1	408.1	346.7	307.6	267.0	236.6	212.8	193.7	178.0	164.7	153.5	143.7	104.8	83.1	69.1	59.4	46.5	38.4	32.8	28.7	25.6	23.1	21.1	18.0	9.90
12V101F	482.3	355.7	290.5	253.4	222.8	198.3	180.1	164.8	152.9	142.3	133.4	130.0	92.6	74.2	62.4	54.2	42.6	35.0	30.4	26.6	24.3	21.8	20.0	16.7	8.19
12V125F	595.9	468.5	392.1	336.9	300.3	264.4	242.8	221.6	199.8	185.6	173.8	162.1	116.9	93.5	78.4	67.9	53.7	44.8	38.7	33.9	30.3	27.0	24.4	20.9	10.5
12V155FS	743.2	557.4	466.3	405.9	361.1	324.3	294.5	269.4	248.5	231.2	221.2	202.5	147.7	117.2	97.9	84.5	66.5	55.2	47.3	41.5	36.8	33.3	30.3	25.7	13.7
12V170FS	623.1	623.1	551.8	498.2	435.3	386.7	349.4	319.0	293.5	272.1	254.1	238.3	175.3	139.2	116.0	99.4	77.7	64.0	54.6	47.7	42.0	38.2	35.0	29.6	16.0
12V170F	893.7	700.1	570.2	479.1	414.5	365.8	327.4	297.1	271.9	250.6	232.5	216.8	157.7	124.8	104.1	89.7	71.0	59.0	50.9	45.0	40.4	36.6	33.3	28.5	16.6
12V190F	732.9	732.9	635.2	569.5	493.0	443.4	395.7	361.3	336.5	320.4	298.7	270.9	206.1	159.3	136.7	113.6	88.4	72.6	62.9	54.7	47.3	43.9	38.9	33.9	18.0

**Constant Power Discharge (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	277.9	169.2	126.1	102.1	86.5	75.4	67.2	60.6	55.4	51.1	47.4	44.3	32.1	25.3	21.0	18.0	14.0	11.5	9.80	8.50	7.50	6.70	6.00	5.10	2.50
12V38F	288.8	192.6	147.2	120.2	102.0	88.7	78.9	71.0	64.7	59.4	55.0	51.2	36.5	28.6	23.5	20.1	15.6	12.8	10.9	9.50	8.50	7.60	6.90	5.90	3.30
12V62F	419.8	305.1	242.7	202.9	175.0	154.2	138.1	125.2	114.7	105.8	98.3	87.5	66.1	51.9	42.9	36.6	28.4	23.2	19.7	17.1	15.2	13.6	12.4	10.5	5.60
12V92F	552.9	401.7	320.1	268.1	231.8	204.8	183.8	167.0	153.3	141.7	131.9	123.4	89.8	71.1	59.1	50.8	39.8	32.9	28.1	24.6	21.9	19.8	18.1	15.5	8.60
12V100FC	399.0	399.0	340.5	302.9	263.5	233.9	210.7	192.0	176.5	163.5	152.4	142.9	104.5	83.0	69.1	59.4	46.6	38.5	33.0	28.9	25.7	23.2	21.2	18.1	10.1
12V101F	472.1	351.3	287.3	251.0	221.0	196.9	178.9	163.8	152.1	141.6	132.8	130.0	92.1	73.7	62.0	53.9	42.4	34.9	30.2	26.4	24.3	21.8	19.8	16.7	8.19
12V125F	577.3	458.9	385.0	331.0	295.6	261.0	239.7	219.4	197.7	181.2	170.7	160.6	116.1	92.9	77.8	67.3	53.1	44.5	38.7	33.9	30.3	27.0	24.4	20.9	10.5
12V155FS	724.6	549.6	460.4	401.7	357.8	321.7	292.3	267.6	247.0	229.9	220.1	201.3	146.8	116.6	97.4	84.0	66.1	54.9	47.1	41.3	36.8	33.3	30.3	25.7	13.7
12V170FS	622.0	622.0	543.8	491.5	430.2	382.8	346.2	316.4	291.4	270.4	252.6	236.9	174.5	138.7	115.4	99.1	77.5	63.8	54.5	47.6	42.3	38.0	34.6	29.5	15.9
12V170F	871.4	681.9	558.2	471.0	408.2	361.5	324.6	294.9	270.5	250.0	232.4	216.8	157.7	124.8	104.1	89.7	71.0	59.0	50.9	45.0	40.4	36.6	33.3	28.5	16.6
12V190F	723.9	723.9	628.2	564.1	489.0	440.3	393.0	359.1	334.8	318.8	297.3	269.7	205.0	158.2	135.8	113.0	88.0	72.4	62.5	54.3	47.3	43.9	38.6	33.9	18.0

**Constant Power Discharge (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	277.0	168.0	125.0	101.0	85.6	75.0	66.5	60.1	54.9	50.7	47.1	43.9	31.9	25.2	20.9	17.9	14.0	11.5	9.72	8.44	7.67	6.87	6.20	5.00	2.50
12V38F	281.0	189.0	146.0	119.0	102.0	88.0	78.6	70.8	64.4	59.3	54.9	51.0	36.4	28.4	23.4	19.9	15.8	12.7	10.8	9.43	8.64	8.18	7.81	5.90	3.30
12V62F	421.0	306.0	243.0	204.0	176.0	155.0	139.0	126.0	115.0	105.0	97.6	86.6	65.8	52.4	42.8	36.9	28.6	23.4	19.9	17.3	15.3	13.7	12.5	10.4	5.55
12V92F	537.0	392.0	313.0	263.0	228.0	202.0	182.0	165.0	151.0	140.6	130.9	122.0	89.4	70.7	58.9	50.5	39.6	32.8	28.0	24.6	22.5	20.4	18.6	15.4	8.60
12V100FC	393.9	393.9	337.7	301.1	261.1	231.3	208.4	188.9	175.6	162.1	151.2	142.0	104.0	82.0	69.0	58.3	45.5	37.5	32.0	28.1	24.8	22.5	20.3	18.2	10.1
12V101F	460.0	345.9	283.5	248.2	218.8	195.1	177.5	162.6	151.0	140.7	132.1	130.2	91.6	73.3	61.6	53.5	42.2	34.7	30.0	26.4	24.3	21.6	19.8	16.7	8.19
12V125F	558.7	449.3	377.9	325.1	291.0	257.6	236.6	217.2	195.5	176.9	167.6	159.0	115.3	92.3	77.2	66.7	52.5	44.2	38.6	33.9	30.4	27.1	24.4	20.9	10.5
12V155FS	703.7	540.5	453.7	396.8	353.9	318.4	289.7	265.4	245.1	228.2	218.7	200.3	146.0	115.9	96.7	83.4	65.7	54.5	46.7	41.0	36.5	33.1	30.1	25.5	13.6
12V170FS	607.6	607.6	535.2	485.2	425.5	379.5	343.4	314.1	289.5	268.4	250.8	235.7	173.5	138.2	115.0	98.9	77.4	63.7	54.4	47.5	42.2	38.0	34.6	29.4	15.9
12V170F	843.7	662.0	544.5	461.4	400.9	355.9	320.2	291.3	267.6	247.7	230.7	215.8	157.7	124.8	104.1	89.7	71.0	59.0	50.9	45.0	40.4	36.6	33.3	28.5	16.6
12V190F	712.8	712.8	619.9	557.9	484.2	436.3	390.0	356.5	332.4	316.8	295.8	268.													

### Constant Power Discharge (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	276.0	164.0	122.0	96.0	83.6	72.9	65.0	58.8	53.7	49.7	46.2	43.1	31.4	24.9	20.7	17.8	13.9	11.4	9.66	8.38	7.62	6.80	6.14	4.70	2.40
12V38F	280.0	184.0	143.0	117.0	101.0	87.8	78.1	70.4	64.1	58.9	54.5	50.7	36.0	28.1	23.1	19.6	15.2	12.5	10.6	9.26	8.48	8.03	7.68	5.80	3.20
12V62F	392.0	290.0	233.0	196.0	170.0	151.0	135.0	123.0	113.0	102.9	95.7	84.9	65.0	52.0	42.4	36.7	28.5	23.4	19.8	17.2	15.2	13.7	12.4	10.4	5.49
12V92F	502.0	373.0	300.0	253.0	221.0	196.0	177.0	161.0	148.0	137.7	128.4	120.0	88.2	70.0	58.5	50.2	39.4	32.6	27.9	24.4	22.4	20.2	18.4	15.3	8.40
12V100FC	365.3	365.3	316.7	284.5	248.5	220.4	199.0	181.0	169.0	157.8	147.4	137.4	102.2	80.2	68.2	57.3	44.9	37.0	31.7	27.7	24.5	22.1	20.1	18.2	10.1
12V101F	419.6	326.3	269.3	237.2	210.0	187.8	171.3	157.3	146.4	136.6	128.3	126.8	88.9	71.1	59.8	51.9	41.5	34.4	29.5	26.1	23.3	21.3	19.5	16.4	8.21
12V125F	530.0	405.0	345.3	301.8	271.6	240.5	221.9	203.3	185.4	173.8	162.1	151.3	113.3	88.4	74.6	65.1	52.1	42.6	37.2	33.1	29.6	26.8	24.4	20.8	10.5
12V155FS	638.5	508.9	429.7	378.4	338.8	305.6	278.7	255.8	236.6	220.6	211.9	194.1	141.6	112.4	93.9	81.0	63.7	52.9	45.4	39.8	35.5	32.1	29.2	24.8	13.2
12V170FS	571.6	571.6	510.8	463.5	409.5	366.5	333.1	305.6	282.2	262.1	245.2	230.7	170.3	136.0	113.3	97.6	76.4	63.0	53.8	47.0	41.7	37.5	34.1	29.1	15.6
12V170F	753.2	605.6	503.0	429.7	377.5	336.3	303.4	277.1	255.4	237.3	221.8	208.3	153.9	122.8	103.0	88.9	70.6	58.8	50.8	45.0	40.4	36.6	33.3	28.5	16.6
12V190F	666.8	666.8	587.6	533.0	467.5	420.8	378.8	347.4	323.0	310.2	290.0	263.6	200.8	154.6	133.3	110.5	86.3	71.0	61.4	53.7	46.6	43.0	38.0	33.5	17.8

### Constant Power Discharge (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	275.0	161.0	118.0	96.0	81.4	71.0	63.4	57.4	52.5	48.6	45.2	42.2	30.9	24.6	20.5	17.6	13.8	11.3	9.60	8.30	7.55	6.74	6.08	4.90	2.33
12V38F	279.0	177.0	140.0	116.0	99.6	87.1	77.6	69.9	63.7	58.6	54.2	50.4	35.7	27.8	22.8	19.4	15.0	12.2	10.4	9.08	8.32	7.88	7.54	5.70	3.20
12V62F	363.0	273.0	222.0	188.0	164.0	146.0	131.0	120.0	110.0	100.6	93.7	83.2	64.1	51.5	42.1	36.5	28.4	23.3	19.8	17.2	15.2	13.6	12.4	10.3	5.41
12V92F	466.0	352.0	286.0	244.0	213.0	189.0	172.0	157.0	144.0	134.6	125.7	117.0	86.9	69.2	57.9	46.8	39.1	32.4	27.7	24.2	22.2	20.0	18.3	15.1	8.20
12V100FC	334.0	334.0	293.0	265.3	231.6	205.5	187.0	170.7	161.1	152.4	142.7	131.8	99.5	78.0	66.8	56.1	44.1	36.4	31.1	27.2	24.1	21.7	19.8	17.8	9.80
12V101F	361.3	296.0	247.6	219.7	195.5	175.4	160.6	147.9	138.0	129.0	121.4	118.8	84.1	67.4	56.7	49.2	39.3	32.8	28.5	25.2	22.4	20.1	18.4	15.6	8.23
12V125F	460.0	353.0	302.6	264.6	239.7	215.7	200.2	184.6	167.6	157.5	147.4	137.3	103.7	82.2	70.3	60.5	48.2	39.5	35.0	31.0	28.0	25.2	22.8	19.5	10.5
12V155FS	547.8	461.1	393.6	349.4	314.3	284.2	260.0	239.3	221.8	207.2	199.5	183.2	133.8	106.3	88.8	76.6	60.4	50.1	43.0	37.7	33.6	30.4	27.7	23.5	12.5
12V170FS	527.6	527.6	470.3	433.1	384.3	345.0	316.8	292.5	269.8	251.6	235.7	221.5	163.0	132.5	110.2	95.4	74.6	61.4	52.4	45.8	40.6	36.6	33.3	28.4	15.3
12V170F	657.4	533.1	446.8	388.1	342.1	305.6	277.5	255.0	236.5	220.7	207.0	194.7	144.8	116.5	98.0	84.9	67.6	56.4	48.9	43.3	38.8	35.1	32.0	27.5	16.4
12V190F	615.4	615.4	550.8	504.3	444.9	402.6	363.9	332.7	311.7	303.3	283.8	255.7	197.5	151.2	131.4	108.3	84.7	69.7	59.9	52.3	45.7	41.9	37.3	33.0	17.5

## Temperature Correction Factors

Correction factors for capacity at different temperatures are shown in the table below (the reference temperature is 20°C).

Duration of Discharge	Temperature								
	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C
5 minutes to 59 minutes	0.80	0.86	0.91	0.96	1	1.04	1.06	1.09	1.10
1 hour to 24 hours	0.86	0.90	0.94	0.97	1	1.03	1.05	1.06	1.07