

PowerSafe[®]
V
FRONT TERMINAL



PERFORMANCE DATA

EnerSys[®]

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	352.4	252.9	201.7	169.4	146.2	129.1	115.6	105.1	96.5	89.3	83.1	77.7	56.3	44.4	36.8	31.4	24.4	19.9	16.9	14.7	13.0	11.6	10.5	8.93	4.74
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	300.2	249.4	207.6	178.4	158.0	142.5	129.3	117.8	106.9	98.8	92.6	85.9	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	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	28.0	24.6	21.5	19.1	17.2	15.7	13.3	7.12
12V170FS	540.0	388.6	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
12V190F	540.0	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	341.1	246.5	197.9	166.3	143.8	127.1	113.9	103.7	95.3	88.3	82.2	76.9	55.8	44.0	36.6	31.3	24.2	19.8	16.8	14.6	12.9	11.6	10.5	8.91	4.74
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	300.2	249.4	207.6	178.4	158.0	142.5	129.3	117.8	106.9	98.8	92.6	85.9	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	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	519.0	377.9	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
12V190F	519.0	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	331.5	241.1	194.7	163.6	141.9	125.5	112.7	102.6	94.3	87.3	81.4	76.3	55.4	43.8	36.4	31.1	24.1	19.8	16.7	14.6	12.9	11.5	10.5	8.89	4.73
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	300.2	249.4	207.6	178.4	158.0	142.5	129.3	117.8	106.9	98.8	92.6	85.9	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	335.5	267.1	226.6	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	503.6	369.9	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
12V190F	503.6	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	320.6	235.2	190.9	160.6	139.6	123.4	111.0	101.2	93.1	86.3	80.4	75.4	54.9	43.5	36.1	30.9	24.0	19.7	16.7	14.5	12.8	11.5	10.4	8.86	4.72
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	297.6	244.6	203.1	175.3	156.0	141.1	128.3	117.2	106.3	98.5	92.2	85.5	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	478.8	328.8	263.7	224.5	196.6	175.3	158.6	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	487.2	361.2	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
12V190F	487.2	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	308.1	228.7	186.5	157.0	137.1	121.3	109.3	99.6	91.8	85.1	79.4	74.5	54.4	43.1	35.9	30.7	23.9	19.6	16.6	14.4	12.8	11.5	10.4	8.84	4.71
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	294.6	239.6	198.8	172.3	154.0	139.6	127.2	116.4	105.6	98.1	91.8	85.1	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	470.1	322.0	260.3	222.2	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	470.1	351.5	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
12V190F	470.1	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	294.2	221.7	181.9	153.3	134.3	118.9	107.4	98.0	90.4	83.9	78.3	73.5	53.8	42.7	35.6	30.5	23.7	19.5	16.5	14.4	12.7	11.4	10.4	8.81	4.70
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	289.9	233.3	194.2	169.1	151.8	137.9	125.8	115.1	104.5	97.4	90.9	84.3	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	451.4	315.0	256.6	219.7	193.0	172.6	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	451.4	341.0	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
12V190F	451.4	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	280.0	214.6	177.0	149.7	131.3	116.5	105.3	96.3	88.9	82.5	77.1	72.5	53.2	42.3	35.3	30.3	23.6	19.3	16.4	14.3	12.7	11.4	10.3	8.78	4.68
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	282.7	225.7	189.3	165.8	149.2	135.8	123.9	113.3	102.9	96.3	89.5	83.0	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	432.3	307.3	252.4	216.7	190.7	170.9	155.0	141.7	130.2	120.4	112.5	106.2	77.2	61.2	51.0	43.9	34.5	28.6	24.5	21.4	19.1	17.2	15.6	13.2	7.12
12V170FS	432.3	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
12V190F	432.3	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	265.9	207.6	171.6	146.1	127.9	113.9	103.1	94.5	87.2	81.1	75.9	71.3	52.5	41.8	34.9	30.0	23.4	19.2	16.3	14.2	12.6	11.3	10.3	8.75	4.67
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	273.8	218.2	184.4	162.1	146.5	133.3	121.7	110.9	101.2	94.9	87.9	81.6	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	407.5	298.7	247.5	213.1	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	28.3	24.3	21.3	18.9	17.1	15.5	13.2	7.08
12V170FS	412.6	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
12V190F	412.6	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	236.0	188.5	156.8	135.6	119.2	106.8	97.4	89.5	82.8	77.2	72.3	68.1	50.6	40.6	34.0	29.3	22.9	18.9	16.1	14.0	12.4	11.2	10.1	8.66	4.64
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	246.9	196.1	167.5	149.7	136.0	124.1	113.3	102.4	95.9	88.9	82.1	76.4	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	339.1	274.3	231.3	201.0	178.3	161.0	146.4	134.1	123.6	114.6	107.8	101.4	73.7	58.6	48.9	42.1	33.1	27.4	23.5	20.6	18.3	16.5	15.0	12.7	6.88
12V170FS	359.7	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
12V190F	359.7	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	203.5	167.8	142.0	123.5	109.3	98.9	90.1	83.4	77.2	71.8	67.3	63.4	47.9	38.6	32.8	28.2	22.2	18.3	15.6	13.6	12.1	10.9	9.95	8.43	4.59
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	210.4	170.1	148.4	133.7	120.9	108.4	98.9	91.6	83.6	77.0	72.3	68.4	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	295.0	244.9	210.3	184.2	164.7	149.0	136.1	124.7	115.2	108.1	101.1	94.8	69.3	55.2	46.0	39.5	31.1	25.8	22.1	19.3	17.2	15.5	14.1	12.0	6.51
12V170FS	303.4	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
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 Performance Data



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	578.9	429.8	349.0	297.8	260.0	231.4	209.0	190.7	175.8	163.3	152.7	143.5	106.0	84.2	70.1	60.3	47.2	38.7	32.9	28.7	25.4	22.8	20.7	17.5	9.37
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	515.8	430.6	360.4	312.7	278.9	253.2	232.2	213.8	197.3	182.6	169.2	159.2	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	803.1	587.6	477.9	409.3	360.7	323.6	294.1	270.0	249.5	231.7	215.9	202.3	149.2	118.6	99.2	85.3	67.2	55.8	47.8	41.9	37.3	33.7	30.7	26.1	14.0
12V170FS	894.3	660.5	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
12V190F	894.3	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	567.5	422.7	345.0	295.0	257.3	229.5	207.3	189.3	174.5	162.3	151.9	142.7	105.4	83.9	69.9	60.2	47.1	38.7	32.9	28.6	25.4	22.8	20.7	17.5	9.36
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	515.8	430.6	360.4	312.7	278.9	253.2	232.2	213.8	197.3	182.6	169.2	159.2	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	803.1	587.6	477.9	409.3	360.7	323.6	294.1	270.0	249.5	231.7	215.9	202.3	149.2	118.6	99.2	85.3	67.2	55.8	47.8	41.9	37.3	33.7	30.7	26.1	14.0
12V170FS	866.6	648.2	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
12V190F	866.6	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	556.7	416.6	341.3	292.3	254.8	227.7	205.7	188.0	173.5	161.4	151.0	141.9	105.0	83.5	69.7	60.0	47.0	38.6	32.8	28.6	25.3	22.8	20.7	17.5	9.36
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	515.8	430.6	360.4	312.7	278.9	253.2	232.2	213.8	197.3	182.6	169.2	159.2	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	798.8	584.8	475.8	407.9	359.7	323.0	293.7	269.7	249.3	231.4	215.7	202.3	149.2	118.6	99.2	85.3	67.2	55.8	47.8	41.9	37.3	33.7	30.7	26.1	14.0
12V170FS	846.4	638.7	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
12V190F	846.4	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	543.7	409.6	337.0	288.6	251.9	225.4	203.5	186.2	172.0	160.1	149.9	140.9	104.4	83.1	69.4	59.8	46.8	38.5	32.7	28.5	25.3	22.7	20.6	17.5	9.35
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	515.8	425.4	355.6	308.7	276.4	251.9	231.3	213.1	196.9	182.0	168.8	159.0	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	792.0	577.1	471.8	406.0	358.6	322.2	293.2	269.4	249.0	231.2	215.5	202.3	149.2	118.6	99.2	85.3	67.2	55.8	47.8	41.9	37.3	33.7	30.7	26.1	14.0
12V170FS	825.1	627.6	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
12V190F	825.1	771.1	659.8	588.0	503.5	454.6	402.8	366.4	343.3	326.0	304.0	277.6	208.0	160.4	137.0	114.1	88.9	73.1	62.6	54.7	48.0	43.8	39.2	34.5	18.4

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	528.0	401.5	332.0	284.2	248.9	222.7	201.1	184.3	170.3	158.6	148.5	139.7	103.7	82.6	69.1	59.5	46.6	38.4	32.6	28.4	25.2	22.7	20.6	17.4	9.34
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	515.8	419.7	350.8	305.4	273.9	250.4	230.3	212.4	196.3	181.4	168.4	158.8	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	774.3	568.5	467.7	403.8	357.2	321.3	292.6	269.0	248.8	230.9	215.3	202.0	149.2	118.6	99.1	85.3	67.2	55.8	47.8	41.9	37.3	33.7	30.7	26.1	14.0
12V170FS	802.2	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	16.0
12V190F	802.2	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	155.2	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	207.0	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	510.0	392.3	326.1	279.3	245.2	219.5	198.6	182.1	168.4	156.9	147.0	138.2	102.9	82.0	68.7	59.2	46.4	38.2	32.5	28.3	25.1	22.6	20.5	17.4	9.34
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	515.8	411.6	345.2	301.7	271.5	248.6	228.9	211.0	195.2	180.0	168.0	157.9	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	753.7	560.4	463.0	401.1	355.4	319.9	291.6	268.3	248.1	230.3	215.0	201.6	149.2	118.6	99.0	85.2	67.2	55.7	47.8	41.9	37.3	33.7	30.7	26.1	14.0
12V170FS	778.3	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
12V190F	778.3	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	491.0	382.7	319.7	273.9	241.4	215.9	195.8	179.7	166.5	155.2	145.3	136.8	102.1	81.3	68.3	58.9	46.1	38.0	32.4	28.2	25.0	22.5	20.5	17.4	9.33
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	510.7	400.7	338.8	297.9	268.8	246.3	226.7	209.0	192.9	177.9	167.0	156.1	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	729.6	551.1	458.3	397.7	352.8	318.0	290.1	267.0	247.0	229.4	214.2	200.9	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	753.5	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
12V190F	753.5	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	471.8	372.5	313.1	268.1	237.1	212.0	192.8	177.1	164.2	153.1	143.5	135.3	101.1	80.7	67.8	58.5	45.9	37.8	32.2	28.1	25.0	22.5	20.4	17.3	9.32
12V101F	460.0	389.9	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	494.1	389.9	331.6	293.1	265.5	243.4	224.0	206.4	189.9	175.3	165.1	154.1	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	700.3	539.8	452.5	393.4	349.6	315.5	288.0	265.1	245.3	227.9	212.8	199.8	147.9	117.7	98.3	84.6	66.7	55.3	47.4	41.5	37.0	33.4	30.5	25.9	13.9
12V170FS	727.6	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
12V190F	727.6	712.8	619.9	557.9	484.2	436.3	390.0	356.5	332.4	316.8	295.8	268.8	203.9	157.4	135.0	112.2	87.6	72.0	62.1	54.3	47.3	43.5	38.6	33.9	18.0

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	429.3	346.0	291.7	253.3	224.4	201.6	184.2	170.0	157.8	147.3	138.3	130.6	98.2	78.8	66.5	57.4	45.2	37.3	31.8	27.8	24.7	22.2	20.2	17.2	9.29
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	449.9	358.6	307.6	275.2	251.2	230.7	211.8	194.4	178.8	167.8	156.2	145.5	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	615.7	503.5	430.9	377.4	336.7	304.9	279.0	256.9	237.8	221.2	206.7	195.7	143.6	114.6	95.7	82.5	65.0	53.9	46.2	40.5	36.1	32.6	29.7	25.2	13.5
12V170FS	650.1	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
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	378.5	315.7	268.4	235.0	208.9	189.7	173.2	160.3	149.4	139.4	130.9	123.3	93.5	75.7	64.2	56.0	43.9	36.5	31.1	27.3	24.2	21.8	19.8	16.9	9.19
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	391.5	318.3	278.1	251.4	228.7	207.5	187.9	175.0	160.7	148.2	138.3	131.0	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	551.6	461.1	399.5	352.3	315.9	287.3	263.1	242.7	224.6	209.5	197.9	185.6	136.2	108.7	90.7	78.2	61.5	51.0	43.7	38.4	34.2	30.9	28.2	24.0	12.9
12V170FS	563.0	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
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



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