



PERFORMANCE DATA

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

Battery Type	Standby Time (Minutes)											Standby Time (Hours)													
	5	10	15	20	25	30	35	40	45	50	55	1	1.5	2	2.5	3	4	5	6	7	8	9	10	12	24
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 1.80Vpc 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



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