

EnerSys®

Power/Full Solutions



PowerSafe®
V

Performance Data

Constant Current Discharge Performance Data



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

Battery Type	Standby Time (Minutes)											Standby Time (Hours)													
	5	10	15	20	25	30	35	40	45	50	55	1	1.5	2	2.5	3	4	5	6	7	8	9	10	12	24
12V45	231.8	137.6	106.7	85.6	71.8	61.9	54.7	49.7	45.0	41.4	38.3	35.9	25.5	20.0	16.6	14.3	11.0	9.02	7.67	6.70	5.92	5.32	4.83	4.10	2.11
12V55	287.3	170.1	132.2	106.0	88.9	77.0	67.9	61.6	55.9	51.3	47.6	44.5	31.5	24.8	20.5	17.7	13.7	11.2	9.50	8.31	7.34	6.59	5.99	5.08	2.61
12V70	345.2	203.9	158.9	127.4	106.9	92.9	82.0	74.0	67.4	61.7	57.4	53.4	37.9	29.8	24.7	21.2	16.4	13.4	11.4	10.0	8.82	7.92	7.19	6.11	3.14
12V95	402.3	276.4	206.6	166.8	140.6	122.1	108.1	97.2	88.5	81.3	75.2	70.1	50.1	39.2	32.4	27.7	21.5	17.7	15.0	13.1	11.6	10.4	9.50	8.04	4.24
4V105	346.0	236.0	180.0	148.0	125.0	108.0	97.9	89.3	82.2	76.1	70.2	65.1	47.0	37.7	31.6	27.2	21.7	18.1	15.7	14.0	12.6	11.5	10.5	8.90	4.60
6V105	346.0	236.0	180.0	148.0	125.0	108.0	97.9	89.3	82.2	76.1	70.2	65.1	47.0	37.7	31.6	27.2	21.7	18.1	15.7	14.0	12.6	11.5	10.5	8.90	4.60
6V130	453.1	329.4	258.7	212.0	181.7	156.5	139.0	125.0	114.0	104.0	95.9	89.2	65.8	52.5	43.7	37.9	30.0	24.7	21.0	18.4	16.3	14.8	13.5	11.3	6.02
6V170	717.0	522.0	391.0	322.0	268.0	231.0	203.0	181.0	163.0	149.0	138.0	128.0	92.0	73.8	61.7	53.2	41.2	33.9	29.0	25.5	22.6	20.3	18.4	15.4	7.70
2V200	681.0	477.0	369.0	300.7	260.0	230.6	205.7	185.4	169.6	157.0	144.0	131.0	91.0	74.0	60.0	52.0	41.0	34.9	28.8	25.6	23.6	21.1	20.0	16.9	9.30
2V275	889.0	620.0	480.0	398.7	348.9	311.5	280.4	255.4	233.6	216.0	198.0	180.0	125.0	102.0	83.0	72.0	56.0	48.1	39.7	35.3	32.5	29.0	27.5	23.3	12.7
2V400/2	678.0	678.0	678.3	578.8	506.4	452.2	407.0	370.8	339.1	313.0	288.0	262.0	182.0	148.0	120.0	105.0	82.0	69.8	57.6	51.2	47.1	42.1	40.0	34.2	18.7
2V500/2	531.0	531.0	531.0	531.0	531.0	531.0	470.0	426.0	391.0	363.0	341.0	319.0	234.0	185.0	150.0	131.0	103.0	87.3	72.0	64.0	58.9	52.6	50.0	42.8	23.4
2V500/6	1902	1300	972.0	789.0	657.0	561.0	495.0	450.0	408.0	379.0	352.0	331.0	241.5	195.0	163.1	141.0	112.0	93.2	80.4	70.3	62.8	57.0	51.8	43.7	22.8

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
12V45	231.8	137.6	106.7	85.6	71.8	61.9	54.7	49.7	45.0	41.4	38.3	35.9	25.5	20.0	16.6	14.3	11.0	9.02	7.67	6.70	5.92	5.32	4.83	4.10	2.11
12V55	287.3	170.1	132.2	106.0	88.9	77.0	67.9	61.6	55.9	51.3	47.6	44.5	31.5	24.8	20.5	17.7	13.7	11.2	9.50	8.31	7.34	6.59	5.99	5.08	2.61
12V70	345.2	203.9	158.9	127.4	106.9	92.9	82.0	74.0	67.4	61.7	57.4	53.4	37.9	29.8	24.7	21.2	16.4	13.4	11.4	10.0	8.82	7.92	7.19	6.11	3.14
12V95	394.1	275.3	206.6	166.8	140.6	122.1	108.1	97.2	88.5	81.3	75.2	70.1	50.1	39.2	32.4	27.7	21.5	17.7	15.0	13.1	11.6	10.4	9.50	8.04	4.24
4V105	333.0	231.0	178.0	147.0	125.0	108.0	97.9	89.3	82.2	76.1	70.2	65.1	47.0	37.7	31.6	27.2	21.7	18.1	15.7	14.0	12.6	11.5	10.5	8.90	4.60
6V105	333.0	231.0	178.0	147.0	125.0	108.0	97.9	89.3	82.2	76.1	70.2	65.1	47.0	37.7	31.6	27.2	21.7	18.1	15.7	14.0	12.6	11.5	10.5	8.90	4.60
6V130	453.1	329.4	258.7	212.0	181.7	156.5	139.0	125.0	114.0	104.0	95.9	89.2	65.8	52.5	43.7	37.9	30.0	24.7	21.0	18.4	16.3	14.8	13.5	11.3	6.02
6V170	678.0	514.0	386.0	318.0	267.0	230.0	202.0	181.0	162.0	149.0	138.0	128.0	92.0	73.6	61.5	53.0	41.0	33.7	28.8	25.4	22.6	20.2	18.3	15.4	7.70
2V200	681.0	477.0	369.0	300.7	260.0	230.6	205.7	185.4	169.6	157.0	144.0	131.0	91.0	74.0	60.0	52.0	41.0	34.9	28.8	25.6	23.6	21.1	20.0	16.9	9.30
2V275	889.0	620.0	480.0	398.7	348.9	311.5	280.4	255.4	233.6	216.0	198.0	180.0	125.0	102.0	83.0	72.0	56.0	48.1	39.7	35.3	32.5	29.0	27.5	23.3	12.7
2V400/2	678.0	678.0	678.3	578.8	506.4	452.2	407.0	370.8	339.1	313.0	288.0	262.0	182.0	148.0	120.0	105.0	82.0	69.8	57.6	51.2	47.1	42.1	40.0	34.2	18.7
2V500/2	531.0	531.0	531.0	531.0	531.0	531.0	470.0	426.0	391.0	363.0	341.0	319.0	234.0	185.0	150.0	131.0	103.0	87.3	72.0	64.0	58.9	52.6	50.0	42.8	23.4
2V500/6	1826	1274	964.0	785.0	652.0	560.0	495.0	450.0	408.0	379.0	352.0	331.0	241.5	195.0	163.1	141.0	112.0	93.2	80.4	70.3	62.8	57.0	51.8	43.7	22.8

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
12V45	224.2	135.7	104.2	84.6	71.0	61.3	54.1	49.2	44.5	41.0	38.3	35.9	25.5	20.0	16.6	14.3	11.0	9.02	7.67	6.70	5.92	5.32	4.83	4.10	2.11
12V55	280.4	168.4	130.0	105.2	88.2	76.4	67.4	61.1	55.5	51.0	47.6	44.5	31.5	24.8	20.5	17.7	13.7	11.2	9.50	8.31	7.34	6.59	5.99	5.08	2.61
12V70	341.8	203.0	157.8	127.0	106.5	92.6	81.7	73.8	67.2	61.5	57.4	53.4	37.9	29.8	24.7	21.2	16.4	13.4	11.4	10.0	8.82	7.92	7.19	6.11	3.14
12V95	387.7	272.9	206.6	166.8	140.6	122.1	108.1	97.2	88.5	81.3	75.2	70.1	50.1	39.2	32.4	27.7	21.5	17.7	15.0	13.1	11.6	10.4	9.50	8.04	4.24
4V105	323.0	227.0	177.0	146.0	124.0	108.0	97.9	89.3	82.2	76.1	70.2	65.1	47.0	37.7	31.6	27.2	21.7	18.1	15.7	14.0	12.6	11.5	10.5	8.90	4.60
6V105	323.0	227.0	177.0	146.0	124.0	108.0	97.9	89.3	82.2	76.1	70.2	65.1	47.0	37.7	31.6	27.2	21.7	18.1	15.7	14.0	12.6	11.5	10.5	8.90	4.60
6V130	432.9	319.3	252.4	209.5	179.2	155.2	137.6	123.7	114.0	104.0	95.9	89.2	65.8	52.5	43.7	37.9	30.0	24.7	21.0	18.4	16.3	14.8	13.5	11.3	6.02
6V170	655.0	504.0	380.0	315.0	266.0	230.0	201.0	180.0	162.0	149.0	138.0	128.0	92.0	73.4	61.3	52.8	40.8	33.6	28.8	25.3	22.5	20.2	18.3	15.4	7.70
2V200	650.0	461.2	357.2	300.7	260.0	230.6	205.7	185.4	169.6	156.7	144.0	131.0	90.8	74.2	60.1	52.4	40.9	34.9	28.8	25.6	23.6	21.1	20.0	16.9	9.25
2V275	831.7	598.1	467.3	398.7	348.9	311.5	280.4	255.4	233.6	215.9	198.4	180.4	125.1	102.2	82.7	72.2	56.4	48.1	39.7	35.3	32.5	29.0	27.5	23.3	12.7
2V400/2	678.0	678.0	678.3	578.8	506.4	452.2	407.0	370.8	339.1	313.4	288.0	261.9	181.6	148.4	120.2	104.8	81.9	69.8	57.6	51.2	47.1	42.1	40.0	34.2	18.7
2V500/2	531.0	531.0	531.0	531.0	531.0	531.0	470.0	426.0	391.0	363.0	341.0	319.0	234.0	185.0	150.0	131.0	103.0	87.3	72.0	64.0	58.9	52.6	50.0	42.8	23.4
2V500/6	1769	1249	956.0	781.0	652.0	560.0	495.0	450.0	408.0	379.0	352.0	331.0	241.5	195.0	163.1	141.0	112.0	93.2	80.4	70.3	62.8	57.0	51.8	43.7	22.8

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
12V45	216.0	131.8	102.3	82.4	70.0	60.3	53.3	48.6	44.0	40.5	37.8	35.3	25.2	19.8	16.4	14.1	10.9	8.94	7.61	6.65	5.88	5.27	4.79	4.07	2.10
12V55	269.2	163.3	127.2	102.4	86.9	75.0	66.3	60.3	54.7	50.3	46.9	43.8	31.2	24.6	20.3	17.5	13.6	11.1	9.42	8.24	7.28	6.54	5.94	5.04	2.60
12V70	326.4	196.1	153.9	123.7	104.7	90.6	80.0	72.6	66.1	60.6	56.6	52.6	37.5	29.5	24.4	21.1	16.3	13.3	11.3	9.90	8.75	7.85	7.14	6.06	3.13
12V95	380.2	270.1	206.6	166.8	140.6	122.1	108.1	97.2	88.5	81.3	75.2	70.1	50.1	39.2	32.4	27.7	21.5	17.7	15.0	13.1	11.6	10.4	9.50	8.04	4.24
4V105	313.0	222.0	175.0	145.0	124.0	108.0	97.8	89.3	82.2	76.1	70.2	65.1	47.0	37.7	31.6	27.2	21.7	18.1	15.7	14.0	12.6	11.5	10.5	8.90	4.60
6V105	313.0	222.0	175.0	145.0	124.0	108.0	97.8	89.3	82.2	76.1	70.2	65.1	47.0	37.7	31.6	27.2	21.7	18.1	15.7	14.0	12.6	11.5	10.5	8.90	4.60
6V130	419.3	311.2	247.4	206.0	176.2	153.2	136.1	122.2	112.3	103.2	94.9	88.7	65.8	52.5	43.7	37.9	30.0	24.7	21.0	18.4	16.3	14.8	13.5	11.3	6.02
6V170	623.0	496.0	376.0	311.0	263.0	228.0	200.0	179.0	161.0	147.0	137.0	127.0	91.0	73.2	61.1	52.6	40.7	33.5	28.6	25.2	22.5	20.1	18.2	15.3	7.70
2V200	629.2	448.6	349.1	294.4	255.5	226.1	203.0	183.6	167.8	155.5	143.4	130.1	90.8	74.2	60.1	52.4	40.9	34.9	28.8	25.6	23.6	21.1	20.0	16.9	9.25
2V275	806.8	583.1	457.3	392.5	343.9	306.5	276.6	252.9	231.1	214.3	197.6	179.2	125.1	102.2	82.7	72.2	56.4	48.1	39.7	35.3	32.5	29.0	27.5	23.3	12.7
2V400/2	663.6	663.6	663.8	569.8	499.2	444.9	401.5	367.2	335.5	311.0	286.8	260.2	181.6	148.4	120.2	104.8	81.9	69.8	57.6	51.2	47.1	42.1	40.0	34.2	18.7
2V500/2	522.2	522.2	522.2	422.2	522.2	463.6	420.8	386.6	359.8	336.6	315.8	284.0	185.0	150.0	131.0	103.0	87.3	72.0	64.0	57.9	52.6	50.0	42.8	23.4	
2V500/6	1713	1222	942.0	773.0	648.0	560.0	495.0	450.0	408.0	379.0	352.0	331.0	243.0	195.0	163.1	141.0	112.0	93.2	80.4	70.3	62.8	57.0	51.8	43.7	22.8

Constant Current Discharge Performance Data



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

Battery Type	Standby Time (Minutes)											Standby Time (Hours)													
	5	10	15	20	25	30	35	40	45	50	55	1	1.5	2	2.5	3	4	5	6	7	8	9	10	12	24
12V45	207.8	128.0	100.3	80.2	69.0	59.4	52.5	47.9	43.5	40.0	37.4	34.8	25.0	19.6	16.3	14.0	10.9	8.87	7.54	6.60	5.83	5.23	4.76	4.04	2.09
12V55	258.0	158.2	124.5	99.7	85.5	73.6	65.1	59.4	54.0	49.6	46.3	43.1	30.9	24.3	20.2	17.4	13.5	11.0	9.35	8.18	7.22	6.49	5.89	5.01	2.59
12V70	311.0	189.2	149.9	120.4	102.8	88.7	78.3	71.5	65.0	59.6	55.7	51.8	37.2	29.2	24.2	20.9	16.2	13.2	11.2	9.82	8.68	7.79	7.08	6.02	3.12
12V95	372.0	266.8	205.0	166.8	140.6	122.1	108.1	97.2	88.5	81.3	75.2	70.1	50.1	39.2	32.4	27.7	21.5	17.7	15.0	13.1	11.6	10.4	9.50	8.04	4.24
4V105	302.0	218.0	173.0	144.0	123.0	108.0	97.6	89.2	82.0	75.8	70.1	65.1	47.0	37.7	31.6	27.2	21.7	18.1	15.7	14.0	12.6	11.5	10.5	8.90	4.60
6V105	302.0	218.0	173.0	144.0	123.0	108.0	97.6	89.2	82.0	75.8	70.1	65.1	47.0	37.7	31.6	27.2	21.7	18.1	15.7	14.0	12.6	11.5	10.5	8.90	4.60
6V130	405.7	303.2	242.3	202.4	173.2	151.2	134.5	120.7	110.6	102.4	93.9	88.2	65.8	52.5	43.7	37.9	30.0	24.7	21.0	18.4	16.3	14.8	13.5	11.3	6.02
6V170	603.0	479.0	366.0	306.0	260.0	226.0	199.0	177.0	160.0	147.0	136.0	126.0	91.0	73.0	60.9	52.4	40.5	33.4	28.6	25.1	22.4	20.1	18.2	15.3	7.70
2V200	608.4	435.9	340.9	288.0	251.0	221.6	200.3	181.8	166.0	154.3	142.8	129.2	90.8	74.2	60.1	52.4	40.9	34.9	28.8	25.6	23.6	21.1	20.0	16.9	9.25
2V275	781.9	568.2	447.3	386.3	338.9	301.5	272.9	250.4	228.6	212.6	196.7	178.0	125.1	102.2	82.7	72.2	56.4	48.1	39.7	35.3	32.5	29.0	27.5	23.3	12.7
2V400/2	649.2	649.2	649.3	560.7	492.0	437.7	396.1	363.6	331.9	308.7	285.5	258.4	181.6	148.4	120.2	104.8	81.9	69.8	57.6	51.2	47.1	42.1	40.0	34.2	18.7
2V500/2	513.4	513.4	513.4	513.4	513.4	513.4	457.2	415.6	382.2	356.6	332.2	312.6	234.0	185.0	150.0	131.0	103.0	87.3	72.0	64.0	58.9	52.6	50.0	42.8	23.4
2V500/6	1657	1195	927.3	765.0	644.7	560.0	495.0	450.0	408.0	379.0	352.0	331.0	241.5	195.0	163.1	141.0	112.0	93.2	80.4	70.3	62.8	57.0	51.8	43.7	22.8

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
12V45	195.0	125.2	98.6	78.5	67.8	58.5	51.7	47.2	42.9	39.6	36.9	34.5	24.7	19.5	16.2	13.9	10.8	8.81	7.50	6.55	5.80	5.20	4.73	4.02	2.09
12V55	241.6	154.6	122.2	97.5	84.0	72.5	64.1	58.5	53.2	49.1	45.8	42.8	30.7	24.1	20.0	17.2	13.3	10.9	9.29	8.11	7.18	6.45	5.86	4.98	2.58
12V70	290.3	184.8	146.9	117.6	100.9	87.1	77.0	70.3	63.9	59.0	55.0	51.4	36.9	29.0	24.1	20.7	16.0	13.1	11.2	9.75	8.63	7.75	7.04	5.98	3.11
12V95	362.5	262.7	203.0	166.1	140.6	122.1	108.1	97.2	88.5	81.3	75.2	70.1	50.1	39.2	32.4	27.7	21.5	17.7	15.0	13.1	11.6	10.4	9.50	8.04	4.24
4V105	291.0	214.0	171.0	143.0	122.0	107.0	97.2	89.0	81.6	75.4	69.8	65.0	46.9	37.7	31.6	27.2	21.7	18.0	15.7	13.9	12.6	11.4	10.5	8.90	4.60
6V105	291.0	214.0	171.0	143.0	122.0	107.0	97.2	89.0	81.6	75.4	69.8	65.0	46.9	37.7	31.6	27.2	21.7	18.0	15.7	13.9	12.6	11.4	10.5	8.90	4.60
6V130	391.8	294.8	236.8	198.2	169.9	148.9	132.5	119.1	108.8	101.0	92.9	87.4	65.4	52.3	43.5	37.7	29.8	24.6	21.0	18.4	16.3	14.8	13.5	11.3	6.02
6V170	584.0	463.0	357.0	300.0	254.0	223.0	197.0	175.0	159.0	145.0	135.0	125.0	90.0	72.6	60.7	52.2	40.3	33.1	28.4	24.8	22.2	19.9	18.1	15.2	7.70
2V200	585.6	422.8	332.4	281.7	246.0	217.5	197.2	179.1	163.7	152.1	141.0	127.9	89.9	73.3	59.7	51.9	40.7	34.7	28.8	25.6	23.6	21.1	20.0	16.9	9.25
2V275	751.7	549.5	434.9	376.3	331.4	295.3	267.9	246.7	225.5	209.5	194.2	176.2	123.9	101.0	82.2	71.6	56.1	47.8	39.7	35.3	32.5	29.0	27.5	23.3	12.7
2V400/2	660.2	660.1	631.2	546.2	481.1	428.7	388.9	358.1	327.4	304.2	282.0	255.8	179.8	146.7	119.3	103.9	81.4	69.4	57.6	51.2	47.1	42.1	40.0	34.2	18.7
2V500/2	503.4	503.4	503.4	503.4	503.4	503.4	449.6	409.6	377.8	352.8	329.0	309.8	233.4	183.0	149.0	129.8	102.4	86.8	72.0	64.0	58.9	52.6	50.0	42.8	23.4
2V500/6	1597	1165	910.8	752.6	637.8	556.0	491.6	446.8	406.6	377.6	351.2	330.0	241.1	194.8	163.0	141.0	111.9	93.2	80.0	70.2	62.8	57.0	51.8	43.7	22.8

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
12V45	177.5	123.3	97.2	77.2	66.5	57.8	51.1	46.4	42.3	39.4	36.5	34.5	24.6	19.3	16.1	13.8	10.7	8.78	7.47	6.49	5.77	5.18	4.71	4.00	2.08
12V55	220.0	152.5	120.4	95.8	82.4	71.6	63.3	57.5	52.4	48.8	45.3	42.8	30.4	23.9	19.9	17.1	13.2	10.9	9.25	8.05	7.15	6.42	5.84	4.96	2.57
12V70	264.4	182.8	144.7	115.3	99.0	86.0	76.1	69.0	63.0	58.7	54.4	51.4	36.6	28.7	23.9	20.6	15.9	13.1	11.1	9.67	8.60	7.72	7.01	5.96	3.09
12V95	352.3	257.6	200.5	164.5	140.0	122.1	108.1	97.2	88.5	81.3	75.2	70.1	50.1	39.2	32.4	27.7	21.5	17.7	15.0	13.1	11.6	10.4	9.50	8.04	4.24
4V105	280.0	209.0	168.0	141.0	121.0	106.0	96.7	88.6	81.2	74.9	69.5	64.8	46.8	37.7	31.5	27.1	21.7	18.0	15.6	13.9	12.6	11.4	10.5	8.80	4.60
6V105	280.0	209.0	168.0	141.0	121.0	106.0	96.7	88.6	81.2	74.9	69.5	64.8	46.8	37.7	31.5	27.1	21.7	18.0	15.6	13.9	12.6	11.4	10.5	8.80	4.60
6V130	377.6	286.3	230.7	193.1	166.3	146.4	130.0	117.6	106.8	99.1	91.9	86.4	64.7	51.9	43.2	37.4	29.6	24.3	21.0	18.4	16.3	14.8	13.5	11.3	6.02
6V170	558.0	444.0	347.0	290.0	249.0	219.0	195.0	174.0	157.0	143.0	133.0	124.0	90.0	72.0	60.3	52.0	40.2	33.0	28.3	24.7	22.1	19.8	18.0	15.1	7.70
2V200	560.7	409.2	323.3	275.4	240.6	213.9	193.5	175.4	161.0	148.8	138.1	126.1	88.1	71.6	58.8	51.1	40.2	34.3	28.8	25.6	23.6	21.1	20.0	16.9	9.25
2V275	716.1	527.1	419.9	362.6	321.5	287.8	261.7	241.7	221.8	205.0	190.2	173.8	121.4	98.6	81.0	70.4	55.5	47.2	39.7	35.3	32.5	29.0	27.5	23.3	12.7
2V400/2	696.6	696.3	609.5	526.3	466.7	417.8	379.8	350.9	322.0	297.6	276.1	252.3	176.3	143.2	117.6	102.1	80.5	68.5	57.6	51.2	47.1	42.1	40.0	34.2	18.7
2V500/2	492.2	492.2	492.2	492.2	492.2	492.2	440.8	402.8	373.4	348.4	327.0	307.4	232.2	179.0	147.0	127.4	101.2	85.7	72.0	64.0	58.9	52.6	50.0	42.8	23.4
2V500/6	1531	1132	892.4	735.8	627.4	548.0	484.8	440.4	403.8	374.8	349.6	328.0	240.0	194.4	162.8	141.0	111.9	93.2	79.9	70.1	62.6	56.9	51.8	43.7	22.8

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
12V45	160.1	121.4	95.7	75.9	65.1	57.0	50.5	45.5	41.7	39.2	36.1	34.5	24.4	19.1	16.0	13.7	10.6	8.74	7.44	6.44	5.75	5.16	4.69	3.99	2.07
12V55	198.4	150.5	118.6	94.1	80.7	70.7	62.5	56.4	51.7	48.6	44.8	42.8	30.2	23.7	19.8	17.0	13.1	10.8	9.22	7.98	7.13	6.40	5.81	4.94	2.57
12V70	238.4	180.8	142.5	113.0	97.0	84.9	75.2	67.8	62.1	58.4	53.8	51.4	36.3	28.4	23.8	20.4	15.8	13.0	11.1	9.59	8.56	7.69	6.99	5.94	3.08
12V95	341.1	251.6	197.2	162.5	138.6	121.2	107.8	97.2	88.5	81.3	75.2	70.1	50.1	39.2	32.4	27.7	21.5	17.7	15.0	13.1	11.6	10.4	9.50	8.04	4.24
4V105	269.0	204.0	165.0	139.0	120.0	106.0	96.1	88.1	80.6	74.3	69.0	64.5	46.7	37.5	31.5	27.1	21.6	18.0	15.6	13.9	12.5	11.4	10.4	8.80	4.60
6V105	269.0	204.0	165.0	139.0	120.0	106.0	96.1	88.1	80.6	74.3	69.0	64.5	46.7	37.5	31.5	27.1	21.6	18.0	15.6	13.9	12.5	11.4	10.4	8.80	4.60
6V130	363.5	277.7	224.7	188.1	162.8	143.9	127.5	116.1	104.8	97.2	90.9	85.4	64.0	51.5	42.8	37.1	29.4	24.1	21.0	18.4	16.3	14.8	13.5	11.3	6.02
6V170	525.0	427.0	335.0	281.0	243.0	216.0	193.0	172.0	155.0	142.0	132.0	122.0	89.0	71.5	59.9	51.6	40.1	32.9	28.1	24.5	21.9	19.6	17.8	15.0	7.60
2V200	535.8	395.7	314.3	269.0	235.1	210.3	189.9	171.8	158.3	145.5	135.2	124.4	86.3	69.8	58.0	50.2	39.8	33.8	28.8	25.6	23.6	21.1	20.0	16.9	9.25
2V275	680.6	504.6	405.0	348.9	311.5	280.4	255.4	236.7	218.1	200.5	186.2	171.4	119.0	96.2	79.9	69.2	54.9	46.6	39.7	35.3	32.5	29.0	27.5	23.3	12.7
2V400/2	733.0	732.5	587.8	506.4	452.2	407.0	370.8	343.7	316.5	291.0	270.3	248.8	172.7	139.7	115.9	100.4	79.6	67.7	57.6	51.2	47.1	42.1	40.0	34.2	18.7
2V500/2	481.0	481.0	481.0	481.0	481.0	481.0	432.0	396.0	369.0	344.0	325.0	326.0	239.9	194.0	162.8	141.0	111.5	93.2	79.8	70.1	62.6	56.9	51.8	43.7	22.8
2V500/6	1465	1100	874.0	719.0	617.0	540.0	478.0	434.0	401.0	372.0	348.0	326.0	238.0	194.0	160.0	141.0	111.0	93.2	77.1	67.2	62.8	53.7	51.8	47.4	21.3

Constant Current Discharge Performance Data



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

Battery Type	Standby Time (Minutes)											Standby Time (Hours)													
	5	10	15	20	25	30	35	40	45	50	55	1	1.5	2	2.5	3	4	5	6	7	8	9	10	12	24
12V45	143.5	111.5	85.6	71.8	60.7	53.4	48.1	43.5	39.9	37.0	34.5	32.7	23.6	18.4	15.3	13.2	10.2	8.37	7.17	6.24	5.58	5.01	4.55	3.87	2.05
12V55	177.8	136.8	106.0	88.9	75.2	66.1	59.6	53.9	49.4	45.8	42.6	40.5	29.3	22.8	18.9	16.3	12.7	10.4	8.88	7.74	6.91	6.21	5.64	4.80	2.54
12V70	213.7	162.0	127.4	106.9	90.4	79.5	71.6	64.7	59.4	55.1	51.0	48.6	35.2	27.4	22.7	19.6	15.2	12.5	10.7	9.30	8.31	7.46	6.78	5.77	3.05
12V95	309.2	232.2	185.6	154.8	133.1	116.9	104.4	94.4	86.3	79.6	73.9	69.0	49.8	39.2	32.4	27.7	21.5	17.7	15.0	13.1	11.6	10.4	9.50	8.04	4.24
4V105	241.0	189.0	156.0	133.0	115.0	102.0	93.2	85.8	78.7	72.7	67.4	62.8	45.6	36.9	31.0	26.7	21.2	17.7	15.4	13.7	12.4	11.2	10.3	8.70	4.50
6V105	241.0	189.0	156.0	133.0	115.0	102.0	93.2	85.8	78.7	72.7	67.4	62.8	45.6	36.9	31.0	26.7	21.2	17.7	15.4	13.7	12.4	11.2	10.3	8.70	4.50
6V130	325.6	252.4	207.0	175.4	151.5	133.8	118.6	109.8	99.7	92.1	85.8	81.6	61.2	49.1	41.4	35.9	28.5	23.8	20.4	17.9	16.0	14.5	13.2	11.3	5.95
6V170	433.0	362.0	293.0	253.0	223.0	200.0	181.0	161.0	146.0	136.0	126.0	117.0	86.0	69.1	57.7	50.0	39.1	32.3	27.7	24.1	21.3	19.1	17.3	14.5	7.40
2V200	455.6	343.7	278.1	241.9	212.5	189.9	174.1	158.3	144.7	135.7	124.4	117.0	83.8	68.6	56.7	49.5	39.3	33.8	28.7	25.5	23.6	21.1	20.0	17.2	9.08
2V275	581.0	439.2	355.1	311.5	277.2	249.2	230.5	218.1	199.4	186.9	171.3	161.2	115.5	94.6	78.1	68.2	54.1	46.5	39.5	35.1	32.6	29.1	27.5	23.4	12.5
2V400/2	843.3	637.6	515.5	452.2	402.4	361.7	334.6	316.5	289.4	271.3	248.7	234.0	167.6	137.3	113.3	99.0	78.5	67.5	57.4	50.9	47.3	42.3	40.0	33.9	18.2
2V500/2	440.0	440.0	440.0	440.0	440.0	440.0	402.0	369.0	344.0	322.0	305.0	289.0	217.0	171.0	141.0	124.0	99.0	84.4	71.8	63.6	59.0	52.9	50.0	42.4	22.8
2V500/6	1239	972.0	797.0	668.0	581.0	514.0	460.0	421.0	397.0	368.0	345.0	321.0	235.7	191.0	160.5	139.0	111.0	93.2	79.8	70.1	62.6	56.9	51.8	43.7	22.5

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
12V45	132.5	99.4	77.3	63.5	54.1	47.8	43.4	39.3	36.8	34.2	31.6	29.9	21.8	17.5	14.4	12.2	9.43	7.77	6.67	5.78	5.18	4.65	4.23	3.60	1.90
12V55	164.2	123.1	95.8	78.7	67.0	59.3	53.7	48.7	45.6	42.4	39.2	37.1	27.0	21.7	17.8	15.1	11.7	9.63	8.27	7.17	6.41	5.76	5.24	4.47	2.35
12V70	197.3	148.0	115.1	94.5	80.6	71.2	64.6	58.6	54.8	51.0	47.1	44.5	32.4	26.0	21.4	18.2	14.0	11.6	9.93	8.61	7.71	6.93	6.30	5.37	2.83
12V95	271.8	207.1	168.1	141.8	123.0	108.7	97.5	88.6	81.2	75.1	69.8	65.3	47.5	37.6	31.3	26.9	21.1	17.4	14.8	13.0	11.5	10.4	9.46	8.03	4.24
4V105	211.0	171.0	142.0	123.0	107.0	95.0	87.3	80.8	74.4	68.9	64.1	59.9	44.2	35.8	29.8	25.6	20.5	17.2	14.9	13.4	12.0	10.9	10.0	8.50	4.40
6V105	211.0	171.0	142.0	123.0	107.0	95.0	87.3	80.8	74.4	68.9	64.1	59.9	44.2	35.8	29.8	25.6	20.5	17.2	14.9	13.4	12.0	10.9	10.0	8.50	4.40
6V130	276.4	218.3	181.7	155.2	135.0	119.9	107.3	98.4	90.9	84.6	78.3	75.2	57.4	46.3	39.3	33.9	26.9	22.4	19.3	17.0	15.2	13.7	12.5	10.7	5.66
6V170	348.0	292.0	247.0	220.0	200.0	181.0	162.0	147.0	134.0	125.0	117.0	109.0	81.0	65.6	55.1	47.7	37.3	30.8	26.5	23.1	20.5	18.5	16.8	14.2	7.20
2V200	371.9	288.3	237.4	208.0	187.7	167.3	153.7	142.4	131.1	122.1	113.0	103.5	75.6	63.0	51.9	46.1	36.4	31.5	26.7	23.7	21.8	19.4	18.2	15.8	8.53
2V275	495.3	380.0	311.5	274.1	246.1	224.3	205.6	196.2	180.7	168.2	155.8	142.6	104.1	86.8	71.4	63.6	50.1	43.4	36.9	32.6	30.1	26.7	25.1	21.7	11.7
2V400/2	719.0	551.7	452.2	397.9	357.2	325.6	298.4	284.9	262.3	244.2	226.1	207.0	151.1	126.0	103.6	92.3	72.7	63.0	53.5	47.3	43.7	38.8	36.5	31.5	17.1
2V500/2	393.0	393.0	393.0	393.0	393.0	393.0	360.0	333.0	311.0	292.0	275.0	246.0	198.0	158.0	130.0	115.0	91.0	78.8	66.9	59.1	54.5	48.5	45.6	39.4	21.4
2V500/6	1028	848.0	719.0	615.0	537.0	478.0	434.0	396.0	368.0	345.0	323.0	300.0	225.6	182.0	154.6	134.0	106.5	88.1	75.2	66.0	58.9	53.3	48.6	40.9	21.1

Constant Power Discharge Performance Data



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
12V45	394.3	250.0	193.8	163.4	136.8	118.6	102.8	92.5	84.5	77.1	71.1	67.1	48.4	38.2	31.7	27.0	21.0	17.7	14.9	12.9	11.4	10.4	9.41	8.00	4.18
12V55	475.0	312.6	242.3	204.3	171.0	148.2	127.3	114.6	104.7	95.6	88.1	83.2	60.6	48.3	40.1	34.2	26.8	22.1	18.6	16.2	14.3	12.8	11.8	9.91	5.18
12V70	560.5	379.5	292.1	239.9	204.3	174.8	154.1	138.8	126.7	115.7	106.7	100.7	73.4	58.5	48.5	41.4	32.4	26.8	22.6	19.6	17.3	15.5	14.2	12.0	6.27
12V95	679.6	488.0	375.8	308.3	263.0	230.0	205.0	185.7	169.8	156.3	144.9	135.0	97.2	76.7	63.6	54.5	42.6	35.0	29.8	26.0	23.1	20.8	18.9	16.1	8.50
4V105	569.0	406.0	318.0	265.0	226.0	198.0	179.0	164.0	152.0	141.0	130.0	121.0	88.0	70.9	59.6	51.4	41.3	34.5	30.0	26.7	24.2	22.0	20.2	17.1	8.90
6V105	569.0	406.0	318.0	265.0	226.0	198.0	179.0	164.0	152.0	141.0	130.0	121.0	88.0	70.9	59.6	51.4	41.3	34.5	30.0	26.7	24.2	22.0	20.2	17.1	8.90
6V130	725.0	576.5	465.7	387.0	334.4	288.9	256.6	231.3	211.5	192.4	178.1	165.9	125.2	100.6	83.9	72.9	57.9	48.0	40.8	35.8	31.7	28.8	26.2	22.1	11.8
6V170	1148	858.0	682.0	569.0	483.0	418.0	369.0	336.0	306.0	279.0	261.0	245.0	176.0	141.5	118.6	102.3	79.6	65.5	56.3	50.1	44.5	40.0	36.2	30.4	15.3
2V200	1123	824.9	652.8	538.1	470.3	419.4	374.2	339.1	312.0	290.0	266.0	244.0	171.0	141.0	115.0	100.0	78.0	67.0	55.0	49.0	45.5	40.7	38.6	32.8	17.9
2V275	1466	1072	849.6	713.3	631.6	566.9	510.1	467.3	429.9	399.0	366.0	336.0	236.0	194.0	158.0	138.0	108.0	92.0	76.0	68.0	62.7	56.0	53.1	45.1	24.7
2V400/2	1201	1201	1200	1035	916.8	823.0	740.5	678.3	624.0	580.0	532.0	487.0	342.0	282.0	229.0	200.0	157.0	134.0	111.0	99.0	91.0	81.3	77.2	66.4	36.3
2V500/2	957.0	957.0	957.0	957.0	957.0	957.0	851.0	773.0	709.0	669.0	630.0	591.0	441.0	353.0	286.0	250.0	196.0	168.0	139.0	124.0	113.6	101.6	96.5	82.9	45.4
2V500/6	3105	2289	1801	1487	1255	1110	974.0	878.0	795.0	744.3	693.7	621.5	456.3	371.4	311.5	269.9	215.0	179.3	154.9	135.6	121.1	109.9	100.2	84.7	44.4

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
12V45	394.3	250.0	193.8	163.4	136.8	118.6	102.8	92.5	84.5	77.1	71.1	67.1	48.4	38.2	31.7	27.0	21.0	17.7	14.9	12.9	11.4	10.4	9.41	8.00	4.18
12V55	475.0	312.6	242.3	204.3	171.0	148.2	127.3	114.6	104.7	95.6	88.1	83.2	60.6	48.3	40.1	34.2	26.8	22.1	18.6	16.2	14.3	12.8	11.8	9.91	5.18
12V70	560.5	379.5	292.1	239.9	204.3	174.8	154.1	138.8	126.7	115.7	106.7	100.7	73.4	58.5	48.5	41.4	32.4	26.8	22.6	19.6	17.3	15.5	14.2	12.0	6.27
12V95	679.6	485.4	375.8	308.3	263.0	230.0	205.0	185.7	169.8	156.3	144.9	135.0	97.2	76.7	63.6	54.5	42.6	35.0	29.8	26.0	23.1	20.8	18.9	16.1	8.50
4V105	569.0	406.0	318.0	265.0	226.0	198.0	179.0	164.0	152.0	141.0	130.0	121.0	88.0	70.9	59.6	51.4	41.3	34.5	30.0	26.7	24.2	22.0	20.2	17.1	8.90
6V105	569.0	406.0	318.0	265.0	226.0	198.0	179.0	164.0	152.0	141.0	130.0	121.0	88.0	70.9	59.6	51.4	41.3	34.5	30.0	26.7	24.2	22.0	20.2	17.1	8.90
6V130	725.0	576.5	465.7	387.0	334.4	288.9	256.6	231.3	211.5	192.4	178.1	165.9	125.2	100.6	83.9	72.9	57.9	48.0	40.8	35.8	31.7	28.8	26.2	22.1	11.8
6V170	1105	846.0	673.0	563.0	482.0	417.0	367.0	335.0	305.0	279.0	261.0	245.0	176.0	141.1	118.2	101.9	79.2	65.3	56.1	49.9	44.4	39.9	36.1	30.3	15.3
2V200	1123	824.9	652.8	538.1	470.3	419.4	374.2	339.1	312.0	290.0	266.0	244.0	171.0	141.0	115.0	100.0	78.0	67.0	55.0	49.0	45.5	40.7	38.6	32.8	17.9
2V275	1466	1072	849.6	713.3	631.6	566.9	510.1	467.3	429.9	399.0	366.0	336.0	236.0	194.0	158.0	138.0	108.0	92.0	76.0	68.0	62.7	56.0	53.1	45.1	24.7
2V400/2	1201	1201	1200	1035	916.8	823.0	740.5	678.3	624.0	580.0	532.0	487.0	342.0	282.0	229.0	200.0	157.0	134.0	111.0	99.0	91.0	81.3	77.2	66.4	36.3
2V500/2	957.0	957.0	957.0	957.0	957.0	957.0	851.0	773.0	709.0	669.0	630.0	591.0	441.0	353.0	286.0	250.0	196.0	168.0	139.0	124.0	113.6	101.6	96.5	82.9	45.4
2V500/6	3105	2289	1801	1487	1255	1110	974.0	878.0	795.0	744.3	693.7	621.5	456.3	371.4	311.5	269.9	215.0	179.3	154.9	135.6	121.1	109.9	100.2	84.7	44.4

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
12V45	384.8	243.2	191.5	161.1	134.5	115.5	102.8	92.5	84.5	77.1	71.1	67.1	48.4	38.2	31.7	27.0	21.0	17.7	14.9	12.9	11.4	10.4	9.41	8.00	4.18
12V55	465.5	304.0	239.4	201.4	168.2	144.4	127.3	114.6	104.7	95.6	88.1	83.2	60.6	48.3	40.1	34.2	26.8	22.1	18.6	16.2	14.3	12.8	11.8	9.91	5.18
12V70	543.9	370.5	289.8	236.1	201.9	172.0	154.1	138.8	126.7	115.7	106.7	100.7	73.4	58.5	48.5	41.4	32.4	26.8	22.6	19.6	17.3	15.5	14.2	12.0	6.27
12V95	673.4	483.1	375.8	308.3	263.0	230.0	205.0	185.7	169.8	156.3	144.9	135.0	97.2	76.7	63.6	54.5	42.6	35.0	29.8	26.0	23.1	20.8	18.9	16.1	8.50
4V105	557.0	401.0	318.0	265.0	226.0	198.0	179.0	164.0	152.0	141.0	130.0	121.0	88.0	70.9	59.6	51.4	41.3	34.5	30.0	26.7	24.2	22.0	20.2	17.1	8.90
6V105	557.0	401.0	318.0	265.0	226.0	198.0	179.0	164.0	152.0	141.0	130.0	121.0	88.0	70.9	59.6	51.4	41.3	34.5	30.0	26.7	24.2	22.0	20.2	17.1	8.90
6V130	714.3	562.0	455.9	383.4	330.0	287.7	255.5	230.1	212.4	194.1	179.4	167.2	125.2	100.6	83.9	72.9	57.9	48.0	40.8	35.8	31.9	28.8	26.2	22.1	11.8
6V170	1081	830.0	666.0	559.0	479.0	416.0	365.0	334.0	304.0	279.0	262.0	245.0	176.0	140.7	118.0	101.7	79.0	65.1	55.9	49.8	44.3	39.7	36.0	30.3	15.3
2V200	1072	797.6	631.9	538.1	470.3	419.4	374.2	339.1	312.0	289.9	265.9	243.6	171.2	141.0	114.5	100.1	78.3	67.0	55.4	49.3	45.5	40.7	38.6	32.8	17.9
2V275	1372	1034	827.0	713.3	631.6	566.9	510.1	467.3	429.9	399.4	366.3	335.6	235.9	194.3	157.6	137.9	108.0	92.3	76.3	67.9	62.7	56.0	53.1	45.1	24.7
2V400/2	1201	1201	1200	1035	916.8	823.0	740.5	678.3	624.0	580.0	531.8	487.1	342.4	282.0	229.0	200.1	156.9	134.0	110.7	98.6	91.0	81.3	77.2	66.4	36.3
2V500/2	957.0	957.0	957.0	957.0	957.0	957.0	851.0	773.0	709.0	669.0	630.0	591.0	441.0	353.0	286.0	250.0	196.0	168.0	139.0	124.0	113.6	101.6	96.5	82.9	45.4
2V500/6	3021	2277	1801	1486	1255	1110	974.0	878.0	795.0	744.3	693.7	621.5	456.3	371.4	311.5	269.9	215.0	179.3	154.9	135.6	121.1	109.9	100.2	84.7	44.4

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
12V45	370.7	239.2	190.9	160.2	133.6	114.9	101.6	91.8	83.6	76.7	70.8	66.5	47.9	38.0	31.5	26.9	20.9	17.5	14.8	12.9	11.4	10.3	9.37	7.97	4.17
12V55	454.1	299.1	238.6	200.3	167.0	143.6	125.9	113.7	103.6	95.1	87.7	82.3	60.1	47.7	39.6	33.8	26.5	21.8	18.5	16.0	14.2	12.8	11.7	9.87	5.16
12V70	531.5	365.2	287.9	234.7	200.7	171.6	152.4	137.6	125.4	115.1	106.2	99.7	73.0	58.0	48.1	41.1	32.2	26.5	22.5	19.5	17.2	15.5	14.1	12.0	6.25
12V95	663.2	480.1	374.9	308.3	263.0	230.0	205.0	185.7	169.8	156.3	144.9	135.0	97.2	76.7	63.6	54.5	42.6	35.0	29.8	26.0	23.1	20.8	18.9	16.1	8.50
4V105	546.0	396.0	316.0	265.0	226.0	198.0	179.0	164.0	152.0	141.0	130.0	121.0	88.0	70.9	59.6	51.4	41.3	34.5	30.0	26.7	24.2	22.0	20.2	17.1	8.90
6V105	546.0	396.0	316.0	265.0	226.0	198.0	179.0	164.0	152.0	141.0	130.0	121.0	88.0	70.9	59.6	51.4	41.3	34.5	30.0	26.7	24.2	22.0	20.2	17.1	8.90
6V130	699.8	551.4	448.7	377.7	325.1	284.4	253.1	227.8	209.9	193.2	178.0	166.6	125.2	100.6	83.9	72.9	57.9	48.0	40.8	35.8	31.8	28.8	26.2	22.1	11.8
6V170	1041	828.0	660.0	552.0	474.0	413.0	363.0	332.0	303.0	280.0	260.0	243.0	175.0	140.4	117.8	101.5	78.8	64.9	55.7	49.5	44.2	39.7	35.9	30.3	15.3
2V200	1050	780.7	620.2	529.1	463.0	413.1	371.5	337.3	309.7	288.8	265.8	242.4	171.2	141.0	114.5	100.1	78.3	67.0	55.4	49.3	45.5	40.7	38.6	32.8	17.9
2V275	1346	1015	813.0	705.2	623.8	560.1	505.4	464.8	426.8	397.9	366.2	334.0	235.9	194.3	157.6	137.9	108.0	92.3	76.3	67.9	62.7	56.0	53.1	45.1	24.7
2V400/2	1180	1180	1180	1023	905.5	813.0	733.7	674.7	619.5	577.5	531.6	484.9	342.4	282.0	229.0	200.1	156.9	134.0	110.7	98.6	91.0	81.3	77.2	66.4	36.3
2V500/2	943.4	943.4	943.4	943.4	943.4	943.4	841.0	764.6	706.6	664.2	622.8	585.4	441.0	353.0	286.0	250.0	196.0	168.0	139.0	124.0	113.6	101.6	96.5	82.9	45.4
2V500/6	2938	2217	1759	1464	1250	1110	974.0	878.0	795.0	744.3	693.7	621.5	456.3	371.4	311.5	269.9	215.0	179.3	154.9	135.6	121.1	109.9	100.2	84.7	44.4

Constant Power Discharge Performance Data



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

Battery Type	Standby Time (Minutes)											Standby Time (Hours)													
	5	10	15	20	25	30	35	40	45	50	55	1	1.5	2	2.5	3	4	5	6	7	8	9	10	12	24
12V45	356.6	235.3	190.3	159.3	132.7	114.3	100.5	91.0	82.7	76.3	70.4	65.8	47.5	37.8	31.4	26.8	20.8	17.3	14.7	12.8	11.3	10.3	9.34	7.94	4.15
12V55	442.7	294.1	237.9	199.1	165.9	142.9	124.5	112.8	102.5	94.6	87.2	81.5	59.5	47.1	39.1	33.3	26.2	21.5	18.4	15.9	14.1	12.7	11.6	9.84	5.15
12V70	519.2	359.9	286.0	233.4	199.6	171.2	150.7	136.5	124.1	114.5	105.6	98.7	72.7	57.5	47.7	40.7	31.9	26.2	22.4	19.4	17.2	15.4	14.0	11.9	6.23
12V95	651.6	476.1	373.2	308.1	263.0	230.0	205.0	185.7	169.8	156.3	144.9	135.0	97.2	76.7	63.6	54.5	42.6	35.0	29.8	26.0	23.1	20.8	18.9	16.1	8.50
4V105	531.0	391.0	314.0	264.0	226.0	198.0	179.0	164.0	152.0	141.0	130.0	121.0	88.0	70.9	59.6	51.4	41.3	34.5	30.0	26.7	24.2	22.0	20.2	17.1	8.90
6V105	531.0	391.0	314.0	264.0	226.0	198.0	179.0	164.0	152.0	141.0	130.0	121.0	88.0	70.9	59.6	51.4	41.3	34.5	30.0	26.7	24.2	22.0	20.2	17.1	8.90
6V130	685.3	540.7	441.5	372.1	320.2	281.1	250.8	225.6	207.4	192.3	176.6	166.1	125.2	100.6	83.9	72.9	57.9	48.0	40.8	35.7	31.7	28.8	26.2	22.1	11.8
6V170	1019	810.0	646.0	545.0	469.0	411.0	362.0	330.0	301.0	279.0	259.0	241.0	174.0	139.9	117.5	101.2	78.3	64.6	55.6	49.3	44.1	39.6	35.8	30.2	15.3
2V200	1027	763.8	608.4	520.0	455.8	406.7	368.8	335.5	307.5	287.7	265.7	241.3	171.2	141.0	114.5	100.1	78.3	67.0	55.4	49.3	45.5	40.7	38.6	32.8	17.9
2V275	1320	996.5	799.0	697.1	616.0	553.2	500.7	462.3	423.6	396.4	366.1	332.5	235.9	194.3	157.6	137.9	108.0	92.3	76.3	67.9	62.7	56.0	53.1	45.1	24.7
2V400/2	1160	1160	1159	1012	894.2	803.1	726.9	671.0	615.0	575.4	531.4	482.6	342.3	282.0	229.0	200.1	156.9	134.0	110.7	98.6	91.0	81.3	77.2	66.4	36.3
2V500/2	929.8	929.8	929.8	929.8	929.8	929	831.0	756.2	704.2	659.4	615.6	579.8	441.0	353.0	286.0	250.0	196.0	168.0	139.0	124.0	113.6	101.6	96.4	82.9	45.4
2V500/6	2854	2156	1717	1440	1245.3	1110	974.0	878.0	795.0	744.3	693.7	621.5	456.3	371.4	311.5	269.9	215.0	179.3	154.9	135.6	121.1	109.9	100.2	84.7	44.4

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
12V45	342.4	230.7	188.5	156.7	131.6	113.2	99.1	89.8	81.7	75.6	69.7	65.3	47.2	37.7	31.3	26.7	20.8	17.2	14.6	12.8	11.3	10.2	9.30	7.90	4.14
12V55	426.6	288.4	235.6	195.9	164.5	141.6	122.7	111.3	101.2	93.7	86.7	81.1	59.2	46.8	38.9	33.2	26.0	21.3	18.3	15.9	14.0	12.7	11.5	9.79	5.13
12V70	501.1	353.2	281.8	229.9	197.7	169.8	148.5	134.8	122.5	113.4	104.9	97.8	72.3	57.1	47.4	40.5	31.7	26.0	22.3	19.3	17.1	15.3	13.9	11.8	6.21
12V95	638.5	471.0	370.8	306.8	262.9	230.0	205.0	185.7	169.8	156.3	144.9	135.0	97.2	76.7	63.6	54.5	42.6	35.0	29.8	26.0	23.1	20.8	18.9	16.1	8.50
4V105	515.0	386.0	311.0	262.0	225.0	198.0	179.0	164.0	152.0	141.0	130.0	121.0	88.0	70.9	59.6	51.4	41.3	34.5	30.0	26.7	24.2	22.0	20.2	17.1	8.90
6V105	515.0	386.0	311.0	262.0	225.0	198.0	179.0	164.0	152.0	141.0	130.0	121.0	88.0	70.9	59.6	51.4	41.3	34.5	30.0	26.7	24.2	22.0	20.2	17.1	8.90
6V130	669.6	529.1	432.5	364.8	314.6	277.3	247.4	223.2	204.5	190.3	175.1	165.1	124.6	100.3	83.7	72.6	57.8	47.7	40.8	35.7	31.7	28.8	26.2	22.1	11.8
6V170	1000	792.0	632.0	535.0	460.0	407.0	360.0	326.0	299.0	273.0	257.0	239.0	173.0	139.1	117.1	100.9	78.0	64.2	55.4	48.9	43.7	39.3	35.6	30.0	15.3
2V200	1001	745.8	595.8	510.7	448.3	400.6	364.2	331.7	303.9	284.1	263.0	239.1	169.5	139.5	113.8	99.3	77.9	66.6	55.4	49.3	45.5	40.7	38.6	32.8	17.9
2V275	1284	970.3	780.2	682.2	604.3	543.6	493.3	457.0	418.7	391.4	362.4	329.4	233.7	192.1	156.7	136.8	107.5	91.7	76.3	67.9	62.7	56.0	53.1	45.1	24.7
2V400/2	1182	1182	1132	990.3	877.2	789.1	716.0	663.4	607.7	568.2	526.1	478.2	339.1	278.9	227.6	198.7	156.0	133.2	110.7	98.6	91.0	81.3	77.2	66.4	36.3
2V500/2	914.2	914.2	914.2	914.2	914.2	914.2	818.8	746.6	699.4	653.6	610.4	575.4	440.2	349.2	284.4	248.2	195.0	167.0	139.0	124.0	113.6	101.6	96.4	82.9	45.4
2V500/6	2765	2102	1682	1415	1229	1094	965.0	869.6	790.2	740.4	690.6	620.2	456.2	371.3	311.5	269.9	214.5	179.3	154.3	135.6	121.1	109.8	100.2	84.6	44.4

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
12V45	327.9	225.6	185.4	152.5	130.4	111.7	97.6	88.3	80.5	74.5	68.8	64.9	47.2	37.7	31.3	26.7	20.8	17.2	14.6	12.8	11.3	10.2	9.27	7.84	4.13
12V55	405.7	282.0	231.8	190.6	163.0	139.7	120.4	109.4	99.8	92.4	85.9	81.0	59.2	47.1	39.0	33.3	26.1	21.4	18.2	15.9	14.0	12.7	11.5	9.74	5.13
12V70	477.4	345.2	275.3	224.2	195.0	167.3	145.8	132.4	120.8	111.8	104.0	97.0	71.7	56.9	47.3	40.4	31.6	26.0	22.1	19.2	17.0	15.3	13.9	11.7	6.18
12V95	624.1	464.4	367.5	305.0	261.7	229.7	205.0	185.7	169.8	156.3	144.9	135.0	97.2	76.7	63.6	54.5	42.6	35.0	29.8	26.0	23.1	20.8	18.9	16.1	8.50
4V105	499.0	380.0	309.0	261.0	225.0	198.0	179.0	164.0	152.0	141.0	130.0	121.0	88.0	70.9	59.6	51.4	41.3	34.5	30.0	26.7	24.2	22.0	20.2	17.1	8.90
6V105	499.0	380.0	309.0	261.0	225.0	198.0	179.0	164.0	152.0	141.0	130.0	121.0	88.0	70.9	59.6	51.4	41.3	34.5	30.0	26.7	24.2	22.0	20.2	17.1	8.90
6V130	652.9	516.6	421.8	355.9	308.3	272.8	242.9	220.8	201.0	187.2	173.7	163.7	123.6	99.7	83.2	72.2	57.4	47.2	40.8	35.8	31.7	28.8	26.2	22.1	11.8
6V170	966.0	768.0	618.0	523.0	453.0	401.0	360.0	323.0	295.0	270.0	254.0	237.0	172.0	138.2	116.5	100.4	77.9	64.0	55.2	48.6	43.5	39.0	35.4	29.9	15.2
2V200	969.6	726.7	582.2	501.2	440.7	394.8	357.9	325.8	298.9	278.0	257.8	235.9	166.3	136.4	112.4	97.8	77.1	65.8	55.4	49.3	45.5	40.7	38.6	32.8	17.9
2V275	1238	936.8	756.5	660.4	588.7	531.1	483.0	448.9	411.8	383.1	355.2	325.0	229.2	187.9	154.8	134.8	106.4	90.6	76.3	67.9	62.7	56.0	53.1	45.1	24.7
2V400/2	1246	1246	1098	958.6	854.6	771.0	701.1	651.6	597.8	556.1	515.6	471.8	332.8	272.8	224.8	195.7	154.4	131.5	110.7	98.6	91.0	81.3	77.2	66.4	36.3
2V500/2	896.6	896.6	896.6	896.6	896.6	896.6	804.4	735.8	692.2	646.8	607.2	572.2	438.6	341.6	281.2	244.6	193.0	165.0	139.0	124.0	113.6	101.6	96.4	82.9	45.4
2V500/6	2672	2056	1654	1387	1201	1064	947.0	852.8	780.6	732.5	684.5	616.9	456.0	371.3	311.4	269.9	214.5	179.3	154.2	135.6	121.0	109.8	100.2	84.6	44.4

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
12V45	313.5	220.4	182.4	148.2	129.2	110.2	96.1	86.7	79.3	73.5	67.8	64.6	47.2	37.7	31.3	26.7	20.9	17.2	14.6	12.8	11.3	10.2	9.23	7.79	4.12
12V55	384.8	275.5	228.0	185.3	161.5	137.8	118.2	107.4	98.3	91.1	85.2	81.0	59.2	47.3	39.2	33.5	26.1	21.5	18.2	15.9	14.0	12.7	11.5	9.69	5.12
12V70	453.6	337.3	268.9	218.5	192.4	164.8	143.1	130.1	118.0	110.2	103.1	96.2	71.1	56.6	47.1	40.2	31.4	25.9	21.9	19.1	16.9	15.2	13.8	11.6	6.15
12V95	608.2	456.4	363.1	302.4	260.1	228.4	204.3	185.4	169.8	156.6	134.4	135.0	97.2	76.7	63.6	54.5	42.6	35.0	29.8	26.0	23.1	20.8	18.9	16.1	8.50
4V105	484.0	373.0	305.0	259.0	224.0	198.0	179.0	164.0	152.0	141.0	130.0	121.0	88.0	70.9	59.6	51.4	41.3	34.5	30.0	26.7	24.2	22.0	20.2	17.1	8.90
6V105	484.0	373.0	305.0	259.0	224.0	198.0	179.0	164.0	152.0	141.0	130.0	121.0	88.0	70.9	59.6	51.4	41.3	34.5	30.0	26.7	24.2	22.0	20.2	17.1	8.90
6V130	636.1	504.0	411.1	347.0	302.0	268.3	238.4	218.3	197.5	184.2	172.2	162.2	122.5	99.1	82.6	71.8	57.1	46.7	40.8	35.8	31.7	28.8	26.2	22.1	11.8
6V170	920.0	747.0	598.0	511.0	445.0	396.0	358.0	320.0	291.0	268.0	251.0	234.0	170.0	137.3	115.7	99.7	77.5	63.8	54.9	48.3	43.1	38.7	35.1	29.6	15.1
2V200	938.3	707.7	568.6	491.8	433.0	388.9	351.6	319.9	293.9	272.0	252.6	232.7	163.0	133.4	111.1	96.4	76.3	64.9	55.4	49.3	45.5	40.7	38.6	32.8	17.9
2V275	1191	903.4	732.8	638.6	573.2	518.7	472.7	440.8	405.0	374.7	348.0	320.5	224.8	183.7	152.9	132.8	105.3	89.5	76.3	67.9	62.7	56.0	53.1	45.1	24.7
2V400/2	1311	1311	1063	927.0	832.0	752.9	686.2	639.8	587.8	543.9	505.2	465.3	326.4	266.7	221.9	192.7	152.8	129.9	110.7	98.6	91.0	81.3	77.2	66.4	36.3
2V500/2	879.0	879.0	879.0	879.0	879.0	879.0	790.0	725.0	685.0	640.0	604.0	569.0	437.0	334.0	278.0	241.0	191.0	163.0	139.0	124.0	113.6	101.6	96.4	82.9	45.4
2V500/6	2580	2010	1627	1359	1173	1034	929.0	836.0	771.0	724.7	678.3	614.4	456.0	371.3	311.4	269.8	214.5	179.3	154.2	135.6	121.0	109.8	100.2	84.6	44.4

Constant Power Discharge Performance Data



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

Battery Type	Standby Time (Minutes)											Standby Time (Hours)													
	5	10	15	20	25	30	35	40	45	50	55	1	1.5	2	2.5	3	4	5	6	7	8	9	10	12	24
12V45	273.6	201.4	167.2	140.6	119.3	104.9	90.4	81.1	74.3	69.0	64.7	61.3	44.8	35.7	29.5	25.4	19.7	16.0	13.8	12.0	10.6	9.59	8.73	7.39	3.89
12V55	342.0	251.8	209.0	175.8	149.2	131.1	112.0	100.4	92.1	85.5	80.1	76.4	55.8	44.5	36.8	31.6	24.5	19.9	17.1	14.9	13.2	11.9	10.8	9.11	4.80
12V70	399.0	301.6	244.6	205.2	178.6	154.9	135.5	121.6	111.5	103.5	97.0	91.4	67.0	54.0	44.6	38.2	29.8	24.2	20.7	18.0	15.9	14.4	13.0	11.0	5.77
12V95	562.1	428.7	346.2	291.0	251.9	222.0	199.6	181.4	166.3	153.5	142.6	133.2	96.7	76.7	63.6	54.5	42.6	35.0	29.8	26.0	23.1	20.8	18.9	16.1	8.50
4V105	443.0	353.0	293.0	251.0	219.0	194.0	178.0	164.0	151.0	140.0	130.0	121.0	88.0	70.9	59.6	51.4	41.3	34.5	30.0	26.7	24.2	22.0	20.2	17.1	8.90
6V105	443.0	353.0	293.0	251.0	219.0	194.0	178.0	164.0	151.0	140.0	130.0	121.0	88.0	70.9	59.6	51.4	41.3	34.5	30.0	26.7	24.2	22.0	20.2	17.1	8.90
6V130	586.1	465.7	382.9	327.2	284.0	251.5	223.6	208.1	189.4	176.0	164.4	156.4	117.8	95.0	80.3	69.8	55.4	46.3	39.7	34.8	31.2	28.2	25.8	22.1	11.7
6V170	781.0	652.0	534.0	460.0	411.0	375.0	339.0	305.0	278.0	259.0	241.0	225.0	165.0	132.7	112.0	97.1	75.9	63.1	54.2	47.4	42.0	37.6	34.0	28.7	14.6
2V200	819.6	625.1	508.7	447.7	395.7	355.0	326.7	297.3	271.3	254.4	234.0	219.9	159.2	131.7	109.1	95.5	76.1	65.5	55.6	49.4	45.8	41.0	38.8	33.4	17.7
2V275	1045	803.7	656.5	576.3	518.7	465.7	430.7	409.6	373.8	350.4	322.4	303.0	219.4	181.5	150.4	131.6	104.8	90.2	76.6	68.1	63.1	56.5	53.3	45.3	24.3
2V400/2	1517	1166	953.0	836.5	752.9	676.0	625.1	594.6	542.6	508.7	468.0	439.9	318.5	263.5	218.1	191.0	152.0	131.0	111.3	98.8	91.7	82.0	77.6	65.7	35.3
2V500/2	810.0	810.0	810.0	810.0	810.0	810.0	739.0	690.0	644.0	603.0	572.0	541.0	414.0	330.0	273.0	239.0	190.0	163.0	139.0	124.0	114.5	101.9	96.4	82.1	44.1
2V500/6	2254	1778	1471	1255	1104	983.0	894.0	825.0	762.0	718.7	675.3	609.0	451.1	367.3	309.5	268.4	214.4	179.3	154.2	135.6	121.0	109.8	100.2	84.5	43.8

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
12V45	235.6	173.3	144.4	126.2	104.9	95.0	80.6	72.5	67.3	62.2	58.5	55.0	40.7	31.2	27.0	23.1	18.2	14.9	12.7	11.1	10.0	8.96	8.17	6.94	3.73
12V55	294.5	216.6	180.5	157.7	131.1	118.8	94.4	85.8	79.2	72.6	69.6	68.1	50.4	37.9	33.4	28.6	22.6	18.6	15.9	13.9	12.5	11.2	10.2	8.65	4.65
12V70	344.4	260.3	212.8	183.4	158.2	140.1	118.6	107.8	96.7	92.5	87.0	81.8	62.6	47.0	40.1	34.4	27.2	22.3	19.1	16.7	14.9	13.4	12.2	10.3	5.55
12V95	506.5	389.1	318.4	270.5	235.4	209.3	188.7	171.9	157.9	146.0	135.8	127.1	92.8	73.8	61.7	53.0	41.8	34.5	29.5	25.8	22.9	20.7	18.8	16.0	8.50
4V105	395.0	324.0	271.0	235.0	206.0	183.0	169.0	157.0	144.0	134.0	125.0	117.0	86.8	70.4	58.9	50.6	40.6	34.1	29.7	26.6	23.9	21.8	20.0	16.9	8.80
6V105	395.0	324.0	271.0	235.0	206.0	183.0	169.0	157.0	144.0	134.0	125.0	117.0	86.8	70.4	58.9	50.6	40.6	34.1	29.7	26.6	23.9	21.8	20.0	16.9	8.80
6V130	511.4	408.3	341.7	293.4	256.6	227.8	204.9	188.5	174.9	162.8	151.0	145.5	111.0	90.0	76.5	66.1	52.5	43.9	37.7	33.3	29.6	26.9	24.6	21.0	11.2
6V170	645.0	542.0	457.0	408.0	371.0	342.0	307.0	281.0	258.0	241.0	226.0	211.0	157.0	126.9	107.2	93.1	72.9	60.5	52.1	45.5	40.5	36.5	33.2	28.0	14.2
2V200	687.9	536.0	444.3	390.0	352.7	316.5	290.5	269.0	247.6	230.6	213.7	195.8	144.8	122.2	100.8	89.9	70.9	61.4	52.2	46.2	42.6	37.9	35.5	30.7	16.6
2V275	916.1	710.5	582.5	515.5	462.6	423.6	388.6	370.7	341.1	317.7	294.4	269.7	199.4	168.3	138.8	123.8	97.7	84.6	71.9	63.6	58.6	52.2	49.0	42.3	22.9
2V400/2	1329	1031	845.6	748.4	671.5	615.0	564.1	538.1	495.1	461.2	427.3	391.5	289.4	244.4	201.5	179.8	141.8	122.9	104.3	92.3	85.1	75.7	71.1	61.4	33.3
2V500/2	728.0	728.0	728.0	728.0	728.0	728.0	679.0	628.0	586.0	532.5	495.6	466.0	380.0	305.0	251.0	225.0	178.0	154.0	130.0	115.0	106.4	94.6	88.9	76.8	41.6
2V500/6	1936	1627	1371	1180	1034	929.0	836.0	762.0	704.0	656.3	608.7	572.0	433.5	351.4	299.6	260.2	207.5	172.0	147.1	129.2	115.4	104.5	94.3	79.5	41.1



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