



MX⁺12310T

Discharge tables @ 20°C (68°F)

Current / A

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	294.6	339.8	384.9	428.3	452.7	468.0	502.4	529.6	548.4
5	0.08	227.0	251.3	274.4	295.6	307.1	314.2	329.4	340.7	347.7
10	0.17	164.5	177.3	189.0	199.5	205.0	208.3	215.3	220.3	223.0
15	0.25	130.6	138.7	146.1	152.5	155.9	157.9	162.1	164.9	166.4
20	0.33	108.9	114.7	119.8	124.2	126.5	127.9	130.7	132.5	133.4
30	0.50	82.6	85.9	88.8	91.3	92.6	93.4	94.9	95.9	96.3
45	0.75	61.2	63.0	64.6	65.9	66.6	67.0	67.7	68.2	68.4
60	1	48.8	50.0	51.0	51.8	52.2	52.4	52.9	53.2	53.2
120	2	27.5	27.8	28.0	28.2	28.3	28.4	28.5	28.6	28.6
180	3	19.3	19.4	19.5	19.5	19.6	19.6	19.7	19.7	19.7
240	4	14.9	14.9	15.0	15.0	15.0	15.0	15.1	15.1	15.1
300	5	12.2	12.2	12.2	12.2	12.2	12.2	12.3	12.3	12.3
480	8	7.9	7.9	7.9	7.9	7.9	7.9	8.0	8.0	8.0
600	10	6.4	6.4	6.5	6.5	6.5	6.5	6.5	6.5	6.5
1200	20	3.4	3.4	3.4	3.5	3.5	3.5	3.5	3.5	3.5

Capacity / Ah

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	9.8	11.3	12.8	14.3	15.1	15.6	16.7	17.7	18.3
5	0.08	18.9	20.9	22.9	24.6	25.6	26.2	27.5	28.4	29.0
10	0.17	27.4	29.5	31.5	33.2	34.2	34.7	35.9	36.7	37.2
15	0.25	32.6	34.7	36.5	38.1	39.0	39.5	40.5	41.2	41.6
20	0.33	36.3	38.2	39.9	41.4	42.2	42.6	43.6	44.2	44.5
30	0.50	41.3	42.9	44.4	45.7	46.3	46.7	47.4	47.9	48.1
45	0.75	45.9	47.2	48.4	49.4	49.9	50.2	50.8	51.2	51.3
60	1	48.8	50.0	51.0	51.8	52.2	52.4	52.9	53.2	53.2
120	2	54.9	55.5	56.0	56.4	56.6	56.7	57.0	57.1	57.1
180	3	57.8	58.1	58.4	58.6	58.8	58.8	59.0	59.0	59.1
240	4	59.5	59.7	59.9	60.1	60.1	60.2	60.3	60.3	60.4
300	5	60.8	60.9	61.0	61.1	61.2	61.2	61.3	61.4	61.4
480	8	63.2	63.3	63.4	63.4	63.5	63.5	63.6	63.7	63.8
600	10	64.3	64.4	64.5	64.6	64.7	64.7	64.9	65.0	65.0
1200	20	67.9	68.4	68.8	69.2	69.4	69.6	69.9	70.1	70.3

Power / WPC

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	549.4	618.2	685.0	747.4	781.8	803.0	849.6	885.1	908.0
5	0.08	429.5	467.0	502.0	533.3	550.0	560.1	581.5	596.8	605.4
10	0.17	314.7	334.7	352.7	368.5	376.7	381.6	391.8	398.6	402.0
15	0.25	251.3	264.2	275.7	285.5	290.6	293.6	299.8	303.8	305.6
20	0.33	210.5	219.7	227.8	234.6	238.2	240.2	244.4	247.1	248.2
30	0.50	160.5	165.9	170.6	174.5	176.5	177.7	180.0	181.5	182.0
45	0.75	119.5	122.5	125.1	127.3	128.3	129.0	130.2	130.9	131.2
60	1	95.8	97.7	99.3	100.7	101.3	101.7	102.5	102.9	103.1
120	2	54.2	54.8	55.2	55.6	55.8	55.9	56.1	56.3	56.3
180	3	38.2	38.4	38.6	38.8	38.8	38.9	39.0	39.1	39.1
240	4	29.6	29.7	29.8	29.9	29.9	29.9	30.0	30.1	30.1
300	5	24.2	24.2	24.3	24.4	24.4	24.4	24.5	24.5	24.5
480	8	15.7	15.8	15.8	15.8	15.9	15.9	15.9	15.9	15.9
600	10	12.8	12.9	12.9	12.9	12.9	12.9	13.0	13.0	13.0
1200	20	6.8	6.8	6.9	6.9	6.9	6.9	6.9	7.0	7.0



MX+ 12310T

Discharge tables @ 25°C (77°F)

Current / A

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	327.0	377.1	427.2	475.3	502.3	519.4	557.5	587.7	608.6
5	0.08	247.1	273.6	298.7	321.8	334.4	342.1	358.7	371.0	378.6
10	0.17	176.8	190.5	203.1	214.3	220.2	223.8	231.3	236.6	239.6
15	0.25	139.3	147.9	155.8	162.7	166.3	168.4	172.9	175.9	177.5
20	0.33	115.6	121.7	127.2	131.9	134.3	135.7	138.7	140.7	141.6
30	0.50	87.0	90.6	93.7	96.3	97.6	98.4	100.0	101.1	101.5
45	0.75	64.1	66.0	67.6	69.0	69.7	70.1	71.0	71.5	71.6
60	1	50.9	52.1	53.2	54.0	54.4	54.7	55.2	55.4	55.5
120	2	28.4	28.7	28.9	29.1	29.3	29.3	29.4	29.5	29.5
180	3	19.8	19.9	20.0	20.1	20.1	20.2	20.2	20.2	20.2
240	4	15.2	15.3	15.3	15.4	15.4	15.4	15.4	15.4	15.5
300	5	12.4	12.4	12.5	12.5	12.5	12.5	12.5	12.5	12.5
480	8	8.0	8.0	8.0	8.1	8.1	8.1	8.1	8.1	8.1
600	10	6.5	6.5	6.5	6.6	6.6	6.6	6.6	6.6	6.6
1200	20	3.4	3.4	3.5	3.5	3.5	3.5	3.5	3.5	3.5

Capacity / Ah

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	10.9	12.6	14.2	15.8	16.7	17.3	18.6	19.6	20.3
5	0.08	20.6	22.8	24.9	26.8	27.9	28.5	29.9	30.9	31.5
10	0.17	29.5	31.7	33.8	35.7	36.7	37.3	38.6	39.4	39.9
15	0.25	34.8	37.0	39.0	40.7	41.6	42.1	43.2	44.0	44.4
20	0.33	38.5	40.6	42.4	44.0	44.8	45.2	46.2	46.9	47.2
30	0.50	43.5	45.3	46.8	48.1	48.8	49.2	50.0	50.5	50.7
45	0.75	48.1	49.5	50.7	51.8	52.3	52.6	53.2	53.6	53.7
60	1	50.9	52.1	53.2	54.0	54.4	54.7	55.2	55.4	55.5
120	2	56.7	57.3	57.9	58.3	58.5	58.6	58.9	59.0	59.0
180	3	59.4	59.7	60.0	60.3	60.4	60.5	60.6	60.7	60.7
240	4	60.9	61.2	61.4	61.5	61.6	61.6	61.7	61.8	61.8
300	5	62.1	62.2	62.3	62.5	62.5	62.5	62.6	62.7	62.7
480	8	64.2	64.3	64.4	64.5	64.5	64.6	64.6	64.7	64.8
600	10	65.1	65.3	65.4	65.5	65.6	65.6	65.8	65.9	66.0
1200	20	68.4	68.9	69.3	69.7	69.9	70.1	70.4	70.6	70.8

Power / WPC

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	609.7	686.1	760.2	829.4	867.5	891.1	942.8	982.2	1007.6
5	0.08	467.6	508.5	546.5	580.7	598.8	609.9	633.1	649.7	659.1
10	0.17	338.1	359.6	379.0	396.0	404.8	410.1	420.9	428.3	431.9
15	0.25	268.0	281.8	294.0	304.6	310.0	313.2	319.7	324.0	326.0
20	0.33	223.4	233.1	241.7	249.0	252.8	255.0	259.4	262.2	263.4
30	0.50	169.2	174.9	179.8	184.0	186.1	187.3	189.8	191.3	191.9
45	0.75	125.2	128.3	131.0	133.3	134.4	135.1	136.4	137.2	137.4
60	1	99.9	101.9	103.6	105.0	105.7	106.1	106.9	107.4	107.5
120	2	56.0	56.6	57.0	57.4	57.6	57.7	58.0	58.1	58.2
180	3	39.2	39.5	39.7	39.8	39.9	40.0	40.1	40.1	40.2
240	4	30.3	30.4	30.5	30.6	30.6	30.7	30.7	30.8	30.8
300	5	24.7	24.8	24.8	24.9	24.9	24.9	25.0	25.0	25.1
480	8	16.0	16.0	16.1	16.1	16.1	16.1	16.2	16.2	16.2
600	10	13.0	13.0	13.1	13.1	13.1	13.1	13.1	13.2	13.2
1200	20	6.8	6.9	6.9	6.9	7.0	7.0	7.0	7.0	7.0



MX⁺12425T

Discharge tables @ 20°C (68°F)

Current / A

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	380.1	436.7	493.0	546.9	577.2	596.1	638.4	671.8	694.6
5	0.08	299.2	330.4	360.0	387.1	401.8	410.8	430.2	444.5	453.3
10	0.17	221.7	238.4	253.8	267.5	274.7	279.0	288.2	294.6	298.1
15	0.25	178.5	189.3	199.1	207.6	212.1	214.7	220.2	224.0	225.9
20	0.33	150.5	158.1	165.0	170.9	174.0	175.8	179.5	182.0	183.2
30	0.50	115.7	120.2	124.2	127.6	129.3	130.3	132.3	133.6	134.2
45	0.75	86.9	89.4	91.6	93.4	94.3	94.8	95.9	96.5	96.7
60	1	70.1	71.6	73.0	74.1	74.6	74.9	75.6	75.9	76.1
120	2	40.2	40.6	40.9	41.2	41.3	41.4	41.6	41.7	41.7
180	3	28.4	28.6	28.7	28.8	28.9	28.9	29.0	29.0	29.0
240	4	22.0	22.1	22.2	22.3	22.3	22.3	22.3	22.4	22.4
300	5	18.0	18.1	18.2	18.2	18.2	18.2	18.2	18.3	18.3
480	8	11.7	11.8	11.8	11.8	11.9	11.9	11.9	11.9	11.9
600	10	9.5	9.6	9.6	9.7	9.7	9.7	9.7	9.7	9.7
1200	20	5.0	5.0	5.1	5.1	5.2	5.2	5.2	5.2	5.2

Capacity / Ah

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	12.7	14.6	16.4	18.2	19.2	19.9	21.3	22.4	23.2
5	0.08	24.9	27.5	30.0	32.3	33.5	34.2	35.8	37.0	37.8
10	0.17	37.0	39.7	42.3	44.6	45.8	46.5	48.0	49.1	49.7
15	0.25	44.6	47.3	49.8	51.9	53.0	53.7	55.1	56.0	56.5
20	0.33	50.2	52.7	55.0	57.0	58.0	58.6	59.8	60.7	61.1
30	0.50	57.9	60.1	62.1	63.8	64.6	65.1	66.2	66.8	67.1
45	0.75	65.2	67.1	68.7	70.0	70.7	71.1	71.9	72.4	72.6
60	1	70.1	71.6	73.0	74.1	74.6	74.9	75.6	75.9	76.1
120	2	80.3	81.1	81.8	82.4	82.7	82.8	83.2	83.3	83.3
180	3	85.2	85.7	86.1	86.5	86.6	86.7	86.9	87.0	87.0
240	4	88.2	88.5	88.8	89.1	89.2	89.2	89.4	89.4	89.5
300	5	90.2	90.5	90.8	91.0	91.0	91.1	91.2	91.3	91.3
480	8	93.9	94.3	94.5	94.8	94.9	95.0	95.1	95.2	95.3
600	10	95.5	95.9	96.3	96.6	96.7	96.8	97.1	97.2	97.3
1200	20	99.6	100.9	101.9	102.8	103.3	103.6	104.1	104.5	104.8

Power / WPC

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	706.8	791.3	872.9	949.0	990.7	1016.6	1073.2	1116.4	1144.4
5	0.08	567.0	614.5	658.7	698.3	719.3	732.1	759.1	778.5	789.6
10	0.17	426.0	451.8	475.3	495.7	506.4	512.7	525.9	534.8	539.4
15	0.25	345.5	362.4	377.5	390.5	397.1	401.1	409.2	414.5	417.0
20	0.33	292.7	304.8	315.5	324.6	329.3	332.0	337.5	341.1	342.6
30	0.50	226.7	233.8	240.1	245.4	248.0	249.6	252.7	254.6	255.4
45	0.75	171.4	175.4	178.8	181.7	183.1	184.0	185.6	186.6	186.9
60	1	138.7	141.2	143.4	145.2	146.1	146.6	147.6	148.2	148.4
120	2	80.2	80.9	81.5	82.0	82.2	82.3	82.6	82.8	82.8
180	3	56.9	57.2	57.5	57.7	57.8	57.9	58.0	58.1	58.1
240	4	44.3	44.5	44.6	44.7	44.8	44.8	44.9	44.9	45.0
300	5	36.3	36.4	36.5	36.6	36.7	36.7	36.7	36.8	36.8
480	8	23.7	23.8	23.8	23.9	23.9	23.9	24.0	24.0	24.0
600	10	19.3	19.3	19.4	19.5	19.5	19.5	19.6	19.6	19.6
1200	20	10.0	10.2	10.2	10.3	10.4	10.4	10.4	10.5	10.5



MX+ 12425T

Discharge tables @ 25°C (77°F)

Current / A

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	421.8	484.6	547.1	606.9	640.5	661.5	708.5	745.5	770.9
5	0.08	325.7	359.7	392.0	421.5	437.5	447.3	468.3	484.0	493.5
10	0.17	238.2	256.2	272.7	287.4	295.1	299.8	309.6	316.5	320.3
15	0.25	190.4	201.9	212.3	221.5	226.2	229.0	234.9	238.9	240.9
20	0.33	159.7	167.8	175.1	181.4	184.7	186.6	190.5	193.2	194.4
30	0.50	122.0	126.7	130.9	134.5	136.3	137.4	139.5	140.9	141.5
45	0.75	91.1	93.7	95.9	97.8	98.8	99.3	100.4	101.1	101.3
60	1	73.1	74.7	76.1	77.3	77.8	78.2	78.8	79.2	79.3
120	2	41.5	41.9	42.3	42.6	42.7	42.8	42.9	43.0	43.0
180	3	29.2	29.4	29.5	29.6	29.7	29.7	29.8	29.8	29.8
240	4	22.6	22.7	22.7	22.8	22.8	22.8	22.9	22.9	22.9
300	5	18.4	18.5	18.5	18.6	18.6	18.6	18.6	18.6	18.7
480	8	11.9	12.0	12.0	12.0	12.1	12.1	12.1	12.1	12.1
600	10	9.7	9.7	9.8	9.8	9.8	9.8	9.8	9.9	9.9
1200	20	5.0	5.1	5.1	5.2	5.2	5.2	5.2	5.3	5.3

Capacity / Ah

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	14.1	16.2	18.2	20.2	21.3	22.1	23.6	24.9	25.7
5	0.08	27.1	30.0	32.7	35.1	36.5	37.3	39.0	40.3	41.1
10	0.17	39.7	42.7	45.5	47.9	49.2	50.0	51.6	52.8	53.4
15	0.25	47.6	50.5	53.1	55.4	56.5	57.3	58.7	59.7	60.2
20	0.33	53.2	55.9	58.4	60.5	61.6	62.2	63.5	64.4	64.8
30	0.50	61.0	63.4	65.5	67.2	68.1	68.7	69.8	70.4	70.7
45	0.75	68.3	70.2	71.9	73.4	74.1	74.5	75.3	75.8	76.0
60	1	73.1	74.7	76.1	77.3	77.8	78.2	78.8	79.2	79.3
120	2	83.0	83.8	84.5	85.1	85.4	85.6	85.9	86.1	86.1
180	3	87.5	88.1	88.5	88.9	89.0	89.1	89.3	89.4	89.4
240	4	90.3	90.6	91.0	91.2	91.3	91.4	91.5	91.6	91.6
300	5	92.2	92.4	92.7	92.9	93.0	93.1	93.2	93.2	93.3
480	8	95.5	95.8	96.1	96.3	96.4	96.5	96.7	96.8	96.9
600	10	96.8	97.2	97.6	97.9	98.1	98.2	98.4	98.6	98.7
1200	20	100.4	101.6	102.7	103.6	104.1	104.3	104.9	105.3	105.6

Power / WPC

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	784.4	878.1	968.7	1053.1	1099.4	1128.1	1190.9	1238.9	1270.0
5	0.08	617.3	669.1	717.1	760.2	783.2	797.1	826.5	847.6	859.7
10	0.17	457.7	485.5	510.6	532.6	544.0	550.9	565.0	574.6	579.5
15	0.25	368.5	386.5	402.6	416.5	423.6	427.8	436.4	442.1	444.7
20	0.33	310.7	323.5	334.9	344.5	349.5	352.4	358.2	362.0	363.7
30	0.50	239.0	246.5	253.1	258.7	261.5	263.1	266.4	268.4	269.2
45	0.75	179.5	183.7	187.3	190.3	191.8	192.7	194.4	195.5	195.8
60	1	144.7	147.3	149.6	151.5	152.4	152.9	154.0	154.6	154.7
120	2	82.8	83.5	84.2	84.7	84.9	85.1	85.3	85.5	85.5
180	3	55.3	55.8	56.2	56.5	56.7	56.8	57.0	57.1	57.1
240	4	45.3	45.5	45.7	45.8	45.9	45.9	46.0	46.0	46.0
300	5	37.1	37.2	37.3	37.4	37.4	37.5	37.5	37.6	37.6
480	8	24.1	24.1	24.2	24.3	24.3	24.3	24.4	24.4	24.4
600	10	19.5	19.6	19.7	19.7	19.8	19.8	19.8	19.9	19.9
1200	20	10.1	10.2	10.3	10.4	10.4	10.5	10.5	10.5	10.6



MX⁺12540T

Discharge tables @ 20°C (68°F)

Current / A

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	385.9	456.7	529.1	600.2	640.8	666.5	724.7	771.4	803.9
5	0.08	331.1	375.5	419.0	460.1	482.9	497.1	528.5	552.9	569.2
10	0.17	257.5	283.3	307.8	330.3	342.4	349.9	366.1	378.2	385.8
15	0.25	212.0	229.4	245.6	260.2	268.0	272.8	282.9	290.3	294.7
20	0.33	181.1	193.8	205.5	215.9	221.4	224.7	231.7	236.7	239.5
30	0.50	141.4	149.2	156.2	162.4	165.5	167.4	171.3	173.9	175.3
45	0.75	107.5	112.0	116.0	119.3	121.0	122.0	124.0	125.3	125.8
60	1	87.2	90.1	92.7	94.8	95.8	96.4	97.6	98.3	98.4
120	2	50.5	51.4	52.1	52.7	52.9	53.1	53.3	53.3	53.2
180	3	35.8	36.2	36.5	36.7	36.8	36.9	36.9	36.9	36.8
240	4	27.8	28.0	28.2	28.3	28.4	28.4	28.4	28.4	28.3
300	5	22.7	22.9	23.0	23.1	23.1	23.1	23.1	23.1	23.0
480	8	14.8	14.9	14.9	15.0	15.0	15.0	15.1	15.0	15.0
600	10	12.0	12.1	12.2	12.2	12.2	12.3	12.3	12.3	12.3
1200	20	6.2	6.3	6.4	6.5	6.6	6.6	6.7	6.7	6.7

Capacity / Ah

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	12.9	15.2	17.6	20.0	21.4	22.2	24.2	25.7	26.8
5	0.08	27.6	31.3	34.9	38.3	40.2	41.4	44.0	46.1	47.4
10	0.17	42.9	47.2	51.3	55.0	57.1	58.3	61.0	63.0	64.3
15	0.25	53.0	57.3	61.4	65.1	67.0	68.2	70.7	72.6	73.7
20	0.33	60.4	64.6	68.5	72.0	73.8	74.9	77.2	78.9	79.8
30	0.50	70.7	74.6	78.1	81.2	82.8	83.7	85.7	87.0	87.6
45	0.75	80.6	84.0	87.0	89.5	90.8	91.5	93.0	94.0	94.3
60	1	87.2	90.1	92.7	94.8	95.8	96.4	97.6	98.3	98.4
120	2	100.9	102.7	104.2	105.3	105.8	106.1	106.6	106.7	106.7
180	3	107.4	108.6	109.5	110.2	110.5	110.7	110.8	110.7	110.7
240	4	111.2	112.1	112.8	113.3	113.5	113.6	113.6	113.4	113.4
300	5	113.7	114.5	115.1	115.5	115.7	115.7	115.7	115.5	115.5
480	8	118.2	118.9	119.5	120.0	120.2	120.3	120.4	120.4	120.4
600	10	119.9	120.8	121.6	122.2	122.5	122.6	122.9	123.0	123.0
1200	20	124.3	126.5	128.4	130.2	131.1	131.7	133.0	134.1	134.9

Power / WPC

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	756.5	867.5	976.3	1078.6	1134.9	1169.6	1244.9	1300.5	1333.6
5	0.08	651.1	721.1	788.0	849.5	882.9	903.5	948.1	981.5	1002.4
10	0.17	506.5	547.7	586.2	620.8	639.4	650.8	675.1	693.1	704.3
15	0.25	416.8	444.9	470.8	493.8	506.0	513.4	529.1	540.5	547.4
20	0.33	355.9	376.7	395.6	412.2	421.0	426.2	437.3	445.2	449.7
30	0.50	277.9	290.8	302.4	312.5	317.6	320.7	327.1	331.4	333.6
45	0.75	211.2	218.9	225.6	231.3	234.2	235.8	239.2	241.3	242.1
60	1	171.4	176.5	180.9	184.5	186.3	187.4	189.4	190.5	190.7
120	2	99.2	101.0	102.4	103.4	103.9	104.2	104.6	104.7	104.7
180	3	66.6	67.7	68.7	69.4	69.7	69.9	70.2	70.2	70.2
240	4	54.8	55.3	55.7	56.0	56.1	56.1	56.1	56.0	56.0
300	5	44.9	45.3	45.5	45.7	45.8	45.8	45.8	45.7	45.7
480	8	29.3	29.5	29.6	29.7	29.8	29.8	29.8	29.8	29.8
600	10	23.8	24.0	24.1	24.2	24.3	24.3	24.4	24.4	24.4
1200	20	12.5	12.6	12.8	12.9	13.0	13.0	13.1	13.2	13.3



MX⁺ 12540T

Discharge tables @ 25°C (77°F)

Current / A

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	428.2	506.8	587.2	666.0	711.1	739.7	804.2	856.0	892.1
5	0.08	360.5	408.8	456.2	500.9	525.8	541.2	575.4	602.0	619.7
10	0.17	276.7	304.4	330.8	354.9	367.9	376.0	393.3	406.4	414.6
15	0.25	226.1	244.7	262.0	277.6	285.9	291.0	301.7	309.6	314.3
20	0.33	192.2	205.7	218.1	229.2	235.0	238.5	245.9	251.2	254.2
30	0.50	149.1	157.3	164.7	171.2	174.5	176.5	180.6	183.4	184.8
45	0.75	112.6	117.3	121.5	125.0	126.8	127.8	129.9	131.2	131.8
60	1	91.0	94.0	96.7	98.9	99.9	100.6	101.8	102.5	102.7
120	2	52.1	53.1	53.8	54.4	54.7	54.8	55.0	55.1	55.0
180	3	36.8	37.2	37.5	37.8	37.9	37.9	38.0	37.9	37.8
240	4	28.5	28.7	28.9	29.0	29.1	29.1	29.1	29.0	28.9
300	5	23.2	23.4	23.5	23.6	23.6	23.6	23.6	23.6	23.5
480	8	15.0	15.1	15.2	15.2	15.3	15.3	15.3	15.3	15.3
600	10	12.2	12.2	12.3	12.4	12.4	12.4	12.5	12.5	12.5
1200	20	6.3	6.4	6.5	6.6	6.6	6.6	6.7	6.8	6.8

Capacity / Ah

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	14.3	16.9	19.6	22.2	23.7	24.7	26.8	28.5	29.7
5	0.08	30.0	34.1	38.0	41.7	43.8	45.1	48.0	50.2	51.6
10	0.17	46.1	50.7	55.1	59.1	61.3	62.7	65.6	67.7	69.1
15	0.25	56.5	61.2	65.5	69.4	71.5	72.7	75.4	77.4	78.6
20	0.33	64.1	68.6	72.7	76.4	78.3	79.5	82.0	83.7	84.7
30	0.50	74.5	78.7	82.4	85.6	87.3	88.2	90.3	91.7	92.4
45	0.75	84.5	88.0	91.1	93.8	95.1	95.9	97.5	98.4	98.8
60	1	91.0	94.0	96.7	98.9	99.9	100.6	101.8	102.5	102.7
120	2	104.3	106.1	107.6	108.8	109.3	109.6	110.1	110.2	110.2
180	3	110.3	111.6	112.5	113.3	113.6	113.7	113.9	113.8	113.8
240	4	113.8	114.8	115.5	116.0	116.2	116.3	116.3	116.2	116.2
300	5	116.2	117.0	117.6	118.0	118.1	118.2	118.2	118.0	118.0
480	8	120.1	120.9	121.5	121.9	122.1	122.2	122.4	122.3	122.3
600	10	121.6	122.5	123.3	123.9	124.2	124.3	124.6	124.7	124.7
1200	20	125.2	127.4	129.4	131.1	132.1	132.7	134.0	135.1	135.9

Power / WPC

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	839.5	962.6	1083.5	1197.0	1259.4	1297.9	1381.5	1443.2	1479.9
5	0.08	708.9	785.1	857.9	924.9	961.3	983.7	1032.2	1068.6	1091.4
10	0.17	544.2	588.5	629.8	667.0	687.0	699.2	725.4	744.7	756.8
15	0.25	444.6	474.6	502.1	526.7	539.7	547.6	564.4	576.6	583.9
20	0.33	377.8	399.8	419.9	437.5	446.8	452.4	464.1	472.5	477.3
30	0.50	293.0	306.6	318.8	329.4	334.9	338.1	344.8	349.4	351.7
45	0.75	221.3	229.3	236.3	242.3	245.3	247.1	250.6	252.8	253.6
60	1	178.8	184.1	188.7	192.5	194.4	195.4	197.5	198.7	198.9
120	2	102.5	104.3	105.7	106.9	107.4	107.6	108.1	108.1	108.1
180	3	68.4	69.6	70.6	71.3	71.7	71.8	72.1	72.2	72.2
240	4	56.1	56.6	57.0	57.3	57.4	57.5	57.5	57.4	57.4
300	5	45.9	46.2	46.5	46.7	46.8	46.8	46.8	46.7	46.7
480	8	29.7	29.9	30.1	30.2	30.3	30.3	30.3	30.3	30.3
600	10	24.1	24.3	24.5	24.6	24.6	24.7	24.7	24.7	24.7
1200	20	12.6	12.7	12.9	13.0	13.1	13.1	13.2	13.3	13.4



MX⁺ 12170F

Discharge tables @ 20°C (68°F)

Current / A

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	186.6	210.1	233.0	254.4	266.2	273.5	289.5	301.7	309.6
5	0.08	132.5	143.4	153.5	162.5	167.3	170.2	176.4	180.8	183.4
10	0.17	92.1	97.3	101.9	105.9	108.1	109.3	111.9	113.7	114.6
15	0.25	71.8	74.9	77.7	80.1	81.3	82.0	83.5	84.5	85.0
20	0.33	59.3	61.4	63.3	64.8	65.7	66.1	67.1	67.7	68.0
30	0.50	44.5	45.6	46.6	47.5	47.9	48.2	48.7	49.0	49.2
45	0.75	32.7	33.3	33.8	34.3	34.5	34.6	34.9	35.0	35.1
60	1	26.0	26.4	26.7	27.0	27.1	27.2	27.3	27.4	27.5
120	2	14.6	14.7	14.8	14.8	14.9	14.9	14.9	15.0	15.0
180	3	10.2	10.3	10.3	10.4	10.4	10.4	10.4	10.4	10.5
240	4	7.9	8.0	8.0	8.0	8.0	8.0	8.0	8.1	8.1
300	5	6.5	6.5	6.5	6.5	6.6	6.6	6.6	6.6	6.6
480	8	4.2	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
600	10	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.6
1200	20	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9

Capacity / Ah

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	6.2	7.0	7.8	8.5	8.9	9.1	9.6	10.1	10.3
5	0.08	11.0	12.0	12.8	13.5	13.9	14.2	14.7	15.1	15.3
10	0.17	15.4	16.2	17.0	17.7	18.0	18.2	18.7	18.9	19.1
15	0.25	18.0	18.7	19.4	20.0	20.3	20.5	20.9	21.1	21.2
20	0.33	19.8	20.5	21.1	21.6	21.9	22.0	22.4	22.6	22.7
30	0.50	22.2	22.8	23.3	23.7	24.0	24.1	24.3	24.5	24.6
45	0.75	24.5	25.0	25.4	25.7	25.9	26.0	26.2	26.3	26.3
60	1	26.0	26.4	26.7	27.0	27.1	27.2	27.3	27.4	27.5
120	2	29.2	29.4	29.5	29.7	29.7	29.8	29.9	29.9	30.0
180	3	30.7	30.9	31.0	31.1	31.1	31.1	31.2	31.3	31.4
240	4	31.7	31.8	31.9	32.0	32.0	32.1	32.2	32.2	32.3
300	5	32.5	32.5	32.6	32.7	32.8	32.8	32.9	33.0	33.0
480	8	33.9	34.0	34.1	34.3	34.3	34.4	34.5	34.6	34.7
600	10	34.6	34.7	34.9	35.0	35.1	35.2	35.3	35.4	35.5
1200	20	36.8	37.2	37.5	37.8	38.0	38.1	38.3	38.5	38.7

Power / WPC

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	348.9	385.2	419.8	451.3	468.4	478.8	501.3	517.8	527.9
5	0.08	251.9	268.8	284.2	297.8	304.9	309.1	318.0	324.1	327.4
10	0.17	177.1	185.1	192.3	198.4	201.6	203.5	207.3	209.8	211.0
15	0.25	138.8	143.7	148.0	151.7	153.6	154.6	156.8	158.3	158.9
20	0.33	115.1	118.5	121.4	123.8	125.1	125.8	127.3	128.2	128.6
30	0.50	86.8	88.7	90.3	91.6	92.3	92.7	93.5	94.0	94.1
45	0.75	64.2	65.1	66.0	66.7	67.0	67.2	67.7	67.9	68.0
60	1	51.2	51.8	52.4	52.8	53.0	53.1	53.4	53.6	53.6
120	2	28.9	29.1	29.2	29.4	29.4	29.5	29.6	29.6	29.7
180	3	20.4	20.4	20.5	20.6	20.6	20.7	20.7	20.8	20.8
240	4	15.8	15.9	15.9	16.0	16.0	16.0	16.0	16.1	16.1
300	5	12.9	13.0	13.0	13.1	13.1	13.1	13.1	13.2	13.2
480	8	8.5	8.5	8.5	8.6	8.6	8.6	8.6	8.7	8.7
600	10	6.9	7.0	7.0	7.0	7.0	7.0	7.1	7.1	7.1
1200	20	3.7	3.7	3.7	3.8	3.8	3.8	3.8	3.8	3.8



MX⁺ 12170F

Discharge tables @ 25°C (77°F)

Current / A

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	207.0	233.2	258.5	282.3	295.4	303.5	321.2	334.8	343.6
5	0.08	144.3	156.1	167.1	176.9	182.2	185.3	192.1	196.9	199.7
10	0.17	99.0	104.5	109.5	113.8	116.1	117.4	120.2	122.2	123.2
15	0.25	76.6	79.9	82.9	85.4	86.7	87.5	89.0	90.1	90.6
20	0.33	62.9	65.2	67.1	68.8	69.7	70.2	71.2	71.9	72.2
30	0.50	46.9	48.1	49.2	50.1	50.5	50.8	51.3	51.7	51.8
45	0.75	34.3	34.9	35.4	35.9	36.1	36.3	36.5	36.7	36.8
60	1	27.2	27.5	27.9	28.1	28.3	28.3	28.5	28.6	28.7
120	2	15.1	15.2	15.3	15.3	15.4	15.4	15.4	15.5	15.5
180	3	10.5	10.6	10.6	10.6	10.7	10.7	10.7	10.7	10.7
240	4	8.1	8.1	8.2	8.2	8.2	8.2	8.2	8.3	8.3
300	5	6.6	6.6	6.7	6.7	6.7	6.7	6.7	6.7	6.8
480	8	4.3	4.3	4.3	4.4	4.4	4.4	4.4	4.4	4.4
600	10	3.5	3.5	3.5	3.6	3.6	3.6	3.6	3.6	3.6
1200	20	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9

Capacity / Ah

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	6.9	7.8	8.6	9.4	9.8	10.1	10.7	11.2	11.5
5	0.08	12.0	13.0	13.9	14.7	15.2	15.4	16.0	16.4	16.6
10	0.17	16.5	17.4	18.2	19.0	19.3	19.6	20.0	20.4	20.5
15	0.25	19.1	20.0	20.7	21.3	21.7	21.9	22.3	22.5	22.7
20	0.33	21.0	21.7	22.4	22.9	23.2	23.4	23.7	24.0	24.1
30	0.50	23.4	24.1	24.6	25.0	25.3	25.4	25.7	25.8	25.9
45	0.75	25.7	26.2	26.6	26.9	27.1	27.2	27.4	27.5	27.6
60	1	27.2	27.5	27.9	28.1	28.3	28.3	28.5	28.6	28.7
120	2	30.2	30.3	30.5	30.6	30.7	30.8	30.9	30.9	31.0
180	3	31.6	31.7	31.8	31.9	32.0	32.0	32.1	32.2	32.2
240	4	32.5	32.6	32.7	32.8	32.8	32.9	32.9	33.0	33.1
300	5	33.2	33.2	33.3	33.4	33.5	33.5	33.6	33.7	33.8
480	8	34.5	34.6	34.7	34.8	34.9	34.9	35.0	35.1	35.3
600	10	35.1	35.2	35.4	35.5	35.6	35.7	35.8	35.9	36.0
1200	20	37.1	37.5	37.8	38.1	38.3	38.4	38.6	38.8	38.9

Power / WPC

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	387.2	427.5	465.8	500.8	519.8	531.4	556.3	574.7	585.8
5	0.08	274.3	292.7	309.4	324.2	331.9	336.6	346.2	352.9	356.5
10	0.17	190.2	198.9	206.6	213.2	216.6	218.6	222.7	225.4	226.7
15	0.25	148.1	153.3	157.9	161.8	163.8	164.9	167.3	168.8	169.4
20	0.33	122.2	125.7	128.8	131.4	132.8	133.5	135.1	136.0	136.4
30	0.50	91.5	93.5	95.2	96.6	97.3	97.7	98.5	99.0	99.2
45	0.75	67.2	68.2	69.1	69.9	70.2	70.4	70.9	71.1	71.3
60	1	53.4	54.1	54.6	55.1	55.3	55.4	55.7	55.9	55.9
120	2	29.9	30.0	30.2	30.3	30.4	30.4	30.5	30.6	30.7
180	3	20.9	21.0	21.1	21.2	21.2	21.2	21.3	21.3	21.4
240	4	16.2	16.2	16.3	16.3	16.4	16.4	16.4	16.5	16.5
300	5	13.2	13.3	13.3	13.4	13.4	13.4	13.4	13.5	13.5
480	8	8.6	8.6	8.7	8.7	8.7	8.7	8.8	8.8	8.8
600	10	7.0	7.0	7.1	7.1	7.1	7.1	7.2	7.2	7.2
1200	20	3.7	3.7	3.8	3.8	3.8	3.8	3.8	3.9	3.9



MX+ 12245F

Discharge tables @ 20°C (68°F)

Current / A

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	249.1	285.8	322.5	358.0	378.2	391.0	420.0	443.8	461.3
5	0.08	185.2	204.5	222.9	239.6	248.7	254.2	266.0	274.6	279.6
10	0.17	132.2	142.3	151.5	159.6	163.8	166.3	171.4	174.8	176.4
15	0.25	104.5	110.9	116.6	121.5	124.1	125.5	128.5	130.4	131.1
20	0.33	87.0	91.5	95.5	98.8	100.5	101.5	103.5	104.7	105.0
30	0.50	65.9	68.5	70.7	72.6	73.5	74.1	75.1	75.7	75.9
45	0.75	48.9	50.3	51.4	52.4	52.9	53.2	53.7	54.0	54.1
60	1	39.1	39.9	40.7	41.3	41.5	41.7	42.0	42.2	42.3
120	2	22.1	22.3	22.5	22.6	22.7	22.7	22.8	22.9	22.9
180	3	15.6	15.6	15.7	15.7	15.8	15.8	15.8	15.9	15.9
240	4	12.1	12.1	12.1	12.1	12.1	12.1	12.2	12.2	12.2
300	5	9.9	9.9	9.9	9.9	9.9	9.9	9.9	10.0	10.0
480	8	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
600	10	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
1200	20	2.8	2.8	2.8	2.8	2.8	2.9	2.9	2.9	2.9

Capacity / Ah

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	8.3	9.5	10.8	11.9	12.6	13.0	14.0	14.8	15.4
5	0.08	15.4	17.0	18.6	20.0	20.7	21.2	22.2	22.9	23.3
10	0.17	22.0	23.7	25.3	26.6	27.3	27.7	28.6	29.1	29.4
15	0.25	26.1	27.7	29.2	30.4	31.0	31.4	32.1	32.6	32.8
20	0.33	29.0	30.5	31.8	32.9	33.5	33.8	34.5	34.9	35.0
30	0.50	33.0	34.2	35.4	36.3	36.8	37.0	37.6	37.9	37.9
45	0.75	36.7	37.7	38.6	39.3	39.7	39.9	40.3	40.5	40.6
60	1	39.1	39.9	40.7	41.3	41.5	41.7	42.0	42.2	42.3
120	2	44.2	44.6	44.9	45.2	45.4	45.4	45.6	45.8	45.8
180	3	46.8	46.9	47.1	47.2	47.3	47.3	47.5	47.6	47.7
240	4	48.4	48.4	48.4	48.5	48.6	48.6	48.7	48.8	49.0
300	5	49.5	49.5	49.5	49.5	49.5	49.6	49.7	49.8	50.0
480	8	51.7	51.6	51.6	51.6	51.7	51.7	51.8	52.0	52.2
600	10	52.7	52.7	52.7	52.7	52.8	52.8	53.0	53.2	53.4
1200	20	55.9	56.3	56.6	56.8	57.0	57.1	57.3	57.5	57.7

Power / WPC

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	469.0	524.9	579.3	630.4	658.6	676.2	715.2	745.8	766.8
5	0.08	352.9	382.7	410.4	435.2	448.4	456.4	473.2	485.2	492.0
10	0.17	254.4	270.1	284.2	296.5	302.8	306.6	314.2	319.3	321.6
15	0.25	202.1	212.1	221.0	228.6	232.5	234.8	239.3	242.2	243.3
20	0.33	168.9	176.0	182.2	187.5	190.2	191.7	194.8	196.6	197.3
30	0.50	128.6	132.8	136.3	139.3	140.8	141.7	143.4	144.3	144.6
45	0.75	95.9	98.1	100.1	101.7	102.5	102.9	103.8	104.3	104.4
60	1	77.0	78.4	79.6	80.5	81.0	81.3	81.8	82.1	82.2
120	2	43.9	44.2	44.5	44.8	44.9	45.0	45.1	45.2	45.3
180	3	31.0	31.1	31.2	31.3	31.4	31.4	31.5	31.6	31.6
240	4	24.1	24.2	24.2	24.2	24.3	24.3	24.3	24.4	24.4
300	5	19.8	19.8	19.8	19.8	19.9	19.9	19.9	19.9	20.0
480	8	12.9	12.9	13.0	13.0	13.0	13.0	13.0	13.0	13.1
600	10	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.7	10.7
1200	20	5.6	5.6	5.7	5.7	5.7	5.7	5.7	5.8	5.8



MX+ 12245F

Discharge tables @ 25°C (77°F)

Current / A

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	276.5	317.2	357.9	397.3	419.7	433.9	466.1	492.5	511.9
5	0.08	201.6	222.7	242.7	260.9	270.7	276.7	289.6	298.9	304.5
10	0.17	142.1	152.9	162.8	171.5	176.0	178.7	184.2	187.8	189.5
15	0.25	111.4	118.3	124.4	129.6	132.3	133.9	137.1	139.0	139.8
20	0.33	92.3	97.1	101.3	104.9	106.7	107.8	109.8	111.1	111.5
30	0.50	69.5	72.2	74.6	76.5	77.5	78.1	79.2	79.8	80.0
45	0.75	51.2	52.7	53.9	54.9	55.4	55.7	56.3	56.6	56.7
60	1	40.8	41.7	42.4	43.0	43.3	43.5	43.8	44.0	44.1
120	2	22.9	23.0	23.2	23.4	23.4	23.5	23.6	23.6	23.7
180	3	16.0	16.1	16.1	16.2	16.2	16.2	16.3	16.3	16.3
240	4	12.4	12.4	12.4	12.4	12.4	12.4	12.5	12.5	12.5
300	5	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.2	10.2
480	8	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
600	10	5.3	5.3	5.3	5.3	5.4	5.4	5.4	5.4	5.4
1200	20	2.8	2.8	2.8	2.9	2.9	2.9	2.9	2.9	2.9

Capacity / Ah

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	9.2	10.6	11.9	13.2	14.0	14.5	15.5	16.4	17.1
5	0.08	16.8	18.6	20.2	21.7	22.6	23.1	24.1	24.9	25.4
10	0.17	23.7	25.5	27.1	28.6	29.3	29.8	30.7	31.3	31.6
15	0.25	27.9	29.6	31.1	32.4	33.1	33.5	34.3	34.8	34.9
20	0.33	30.8	32.4	33.8	35.0	35.6	35.9	36.6	37.0	37.2
30	0.50	34.7	36.1	37.3	38.3	38.8	39.0	39.6	39.9	40.0
45	0.75	38.4	39.5	40.4	41.2	41.6	41.8	42.2	42.4	42.5
60	1	40.8	41.7	42.4	43.0	43.3	43.5	43.8	44.0	44.1
120	2	45.7	46.1	46.4	46.7	46.9	46.9	47.1	47.3	47.4
180	3	48.1	48.2	48.4	48.5	48.6	48.6	48.8	48.9	49.0
240	4	49.5	49.5	49.6	49.7	49.7	49.8	49.9	50.0	50.2
300	5	50.6	50.5	50.5	50.6	50.6	50.6	50.7	50.9	51.1
480	8	52.6	52.5	52.5	52.5	52.5	52.6	52.7	52.8	53.1
600	10	53.5	53.4	53.4	53.5	53.5	53.6	53.7	53.9	54.1
1200	20	56.4	56.7	57.0	57.3	57.4	57.5	57.8	58.0	58.2

Power / WPC

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	520.4	582.5	642.9	699.5	730.9	750.4	793.7	827.6	850.9
5	0.08	384.2	416.7	446.8	473.8	488.2	496.9	515.2	528.3	535.6
10	0.17	273.3	290.2	305.4	318.5	325.3	329.4	337.6	343.1	345.5
15	0.25	215.5	226.2	235.7	243.9	248.0	250.4	255.3	258.3	259.5
20	0.33	179.3	186.8	193.4	199.0	201.8	203.5	206.7	208.7	209.4
30	0.50	135.6	140.0	143.7	146.9	148.5	149.4	151.1	152.2	152.5
45	0.75	100.5	102.8	104.8	106.5	107.3	107.8	108.7	109.3	109.4
60	1	80.3	81.7	83.0	84.0	84.5	84.8	85.4	85.7	85.8
120	2	45.3	45.7	46.0	46.2	46.4	46.4	46.6	46.7	46.8
180	3	31.9	32.0	32.1	32.2	32.3	32.3	32.4	32.4	32.5
240	4	24.7	24.7	24.8	24.8	24.9	24.9	24.9	25.0	25.0
300	5	20.2	20.2	20.2	20.3	20.3	20.3	20.3	20.4	20.4
480	8	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.3
600	10	10.7	10.7	10.7	10.7	10.8	10.8	10.8	10.8	10.8
1200	20	5.7	5.7	5.7	5.7	5.8	5.8	5.8	5.8	5.8



MX+ 12365F

Discharge tables @ 20°C (68°F)

Current / A

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	312.0	365.8	420.7	474.3	505.0	524.5	568.8	604.8	630.7
5	0.08	256.0	284.8	312.5	338.3	352.5	361.3	380.5	395.3	405.2
10	0.17	191.8	206.9	220.9	233.6	240.3	244.4	253.2	259.6	263.6
15	0.25	154.4	164.1	173.0	180.8	184.9	187.4	192.6	196.4	198.5
20	0.33	129.9	136.8	143.0	148.5	151.3	153.0	156.5	159.0	160.3
30	0.50	99.4	103.5	107.2	110.3	111.9	112.9	114.8	116.1	116.7
45	0.75	74.2	76.5	78.6	80.3	81.2	81.7	82.7	83.4	83.7
60	1	59.4	61.0	62.3	63.4	64.0	64.3	65.0	65.4	65.5
120	2	33.6	34.1	34.6	34.9	35.1	35.2	35.4	35.5	35.6
180	3	23.6	23.9	24.1	24.3	24.4	24.4	24.5	24.6	24.6
240	4	18.2	18.4	18.6	18.7	18.7	18.8	18.8	18.9	18.9
300	5	14.9	15.0	15.1	15.2	15.3	15.3	15.3	15.4	15.4
480	8	9.7	9.7	9.8	9.9	9.9	9.9	9.9	10.0	10.0
600	10	7.9	7.9	8.0	8.0	8.0	8.1	8.1	8.1	8.1
1200	20	4.2	4.2	4.2	4.3	4.3	4.3	4.3	4.3	4.3

Capacity / Ah

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	10.4	12.2	14.0	15.8	16.8	17.5	19.0	20.2	21.0
5	0.08	21.3	23.7	26.0	28.2	29.4	30.1	31.7	32.9	33.8
10	0.17	32.0	34.5	36.8	38.9	40.0	40.7	42.2	43.3	43.9
15	0.25	38.6	41.0	43.2	45.2	46.2	46.9	48.2	49.1	49.6
20	0.33	43.3	45.6	47.7	49.5	50.4	51.0	52.2	53.0	53.4
30	0.50	49.7	51.8	53.6	55.1	55.9	56.4	57.4	58.1	58.4
45	0.75	55.6	57.4	58.9	60.2	60.9	61.3	62.0	62.5	62.8
60	1	59.4	61.0	62.3	63.4	64.0	64.3	65.0	65.4	65.5
120	2	67.2	68.2	69.1	69.9	70.2	70.4	70.8	71.1	71.1
180	3	70.8	71.6	72.3	72.9	73.1	73.3	73.6	73.8	73.8
240	4	72.9	73.7	74.3	74.8	75.0	75.1	75.4	75.6	75.6
300	5	74.5	75.1	75.7	76.1	76.3	76.5	76.7	76.9	76.9
480	8	77.4	78.0	78.5	78.9	79.1	79.2	79.5	79.7	79.7
600	10	78.8	79.3	79.8	80.2	80.5	80.6	80.9	81.1	81.2
1200	20	83.3	84.0	84.6	85.1	85.4	85.5	85.9	86.3	86.5

Power / WPC

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	582.3	665.7	747.8	825.4	868.5	895.4	954.3	999.6	1028.8
5	0.08	485.0	528.4	569.3	606.5	626.6	638.9	665.5	685.5	698.3
10	0.17	367.2	389.7	410.2	428.5	438.2	444.1	456.6	465.9	471.5
15	0.25	297.4	311.8	324.8	336.2	342.2	345.8	353.4	358.9	362.2
20	0.33	251.1	261.4	270.6	278.6	282.8	285.3	290.5	294.2	296.4
30	0.50	193.1	199.4	204.9	209.6	212.0	213.5	216.5	218.5	219.5
45	0.75	144.8	148.5	151.7	154.4	155.8	156.6	158.2	159.3	159.8
60	1	116.4	118.9	121.1	122.9	123.9	124.4	125.4	126.1	126.3
120	2	66.2	67.2	68.1	68.8	69.1	69.3	69.7	69.9	69.9
180	3	46.6	47.3	47.8	48.2	48.4	48.5	48.7	48.8	48.8
240	4	36.1	36.6	36.9	37.2	37.4	37.4	37.6	37.6	37.6
300	5	29.6	29.9	30.2	30.4	30.5	30.6	30.7	30.7	30.7
480	8	19.3	19.5	19.6	19.8	19.8	19.9	19.9	20.0	20.0
600	10	15.7	15.9	16.0	16.1	16.1	16.2	16.2	16.2	16.2
1200	20	8.3	8.4	8.5	8.5	8.5	8.5	8.6	8.6	8.6



MX⁺12365F

Discharge tables @ 25°C (77°F)

Current / A

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	346.2	406.0	466.8	526.4	560.4	582.1	631.2	671.2	699.9
5	0.08	278.7	310.1	340.3	368.4	383.8	393.3	414.3	430.4	441.1
10	0.17	206.1	222.3	237.4	250.9	258.2	262.6	272.0	279.0	283.2
15	0.25	164.7	175.1	184.5	192.9	197.2	199.9	205.5	209.4	211.7
20	0.33	137.9	145.2	151.8	157.6	160.6	162.4	166.1	168.7	170.1
30	0.50	104.8	109.1	113.0	116.3	118.0	119.0	121.0	122.4	123.1
45	0.75	77.7	80.2	82.3	84.1	85.0	85.6	86.7	87.4	87.7
60	1	62.0	63.6	65.0	66.2	66.8	67.1	67.8	68.2	68.3
120	2	34.7	35.2	35.7	36.1	36.3	36.4	36.6	36.7	36.7
180	3	24.2	24.5	24.8	25.0	25.1	25.1	25.2	25.3	25.3
240	4	18.7	18.9	19.0	19.1	19.2	19.2	19.3	19.3	19.4
300	5	15.2	15.3	15.5	15.5	15.6	15.6	15.7	15.7	15.7
480	8	9.8	9.9	10.0	10.0	10.0	10.1	10.1	10.1	10.1
600	10	8.0	8.0	8.1	8.1	8.2	8.2	8.2	8.2	8.2
1200	20	4.2	4.2	4.3	4.3	4.3	4.3	4.3	4.3	4.4

Capacity / Ah

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	11.5	13.5	15.6	17.5	18.7	19.4	21.0	22.4	23.3
5	0.08	23.2	25.8	28.4	30.7	32.0	32.8	34.5	35.9	36.8
10	0.17	34.3	37.1	39.6	41.8	43.0	43.8	45.3	46.5	47.2
15	0.25	41.2	43.8	46.1	48.2	49.3	50.0	51.4	52.4	52.9
20	0.33	46.0	48.4	50.6	52.5	53.5	54.1	55.4	56.2	56.7
30	0.50	52.4	54.6	56.5	58.1	59.0	59.5	60.5	61.2	61.5
45	0.75	58.3	60.1	61.7	63.1	63.8	64.2	65.0	65.5	65.7
60	1	62.0	63.6	65.0	66.2	66.8	67.1	67.8	68.2	68.3
120	2	69.4	70.5	71.4	72.2	72.5	72.8	73.2	73.4	73.5
180	3	72.7	73.6	74.3	74.9	75.2	75.3	75.6	75.8	75.9
240	4	74.7	75.4	76.0	76.5	76.8	76.9	77.2	77.4	77.4
300	5	76.1	76.7	77.3	77.7	78.0	78.1	78.4	78.5	78.6
480	8	78.7	79.3	79.8	80.2	80.4	80.5	80.8	80.9	81.0
600	10	79.9	80.4	80.9	81.4	81.6	81.7	82.0	82.2	82.3
1200	20	83.9	84.6	85.2	85.7	86.0	86.2	86.6	86.9	87.1

Power / WPC

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	646.2	738.7	829.8	916.0	963.8	993.6	1059.0	1109.2	1141.7
5	0.08	528.1	575.3	619.8	660.3	682.2	695.6	724.6	746.4	760.3
10	0.17	394.6	418.7	440.8	460.4	470.8	477.1	490.6	500.5	506.6
15	0.25	317.2	332.5	346.4	358.6	365.0	368.9	377.0	382.9	386.4
20	0.33	266.5	277.5	287.2	295.7	300.2	302.8	308.4	312.3	314.5
30	0.50	203.6	210.2	216.0	221.0	223.5	225.1	228.2	230.3	231.5
45	0.75	151.6	155.5	158.9	161.8	163.2	164.1	165.8	166.9	167.4
60	1	121.4	124.0	126.3	128.2	129.2	129.7	130.8	131.5	131.8
120	2	68.4	69.4	70.3	71.1	71.4	71.6	72.0	72.2	72.2
180	3	47.9	48.6	49.1	49.5	49.7	49.8	50.0	50.1	50.1
240	4	37.0	37.5	37.8	38.1	38.3	38.3	38.5	38.5	38.5
300	5	30.2	30.5	30.8	31.1	31.2	31.2	31.3	31.4	31.4
480	8	19.6	19.8	20.0	20.1	20.1	20.2	20.2	20.3	20.3
600	10	15.9	16.1	16.2	16.3	16.4	16.4	16.4	16.5	16.5
1200	20	8.4	8.5	8.5	8.6	8.6	8.6	8.6	8.7	8.7



MX⁺ 12425F

Discharge tables @ 20°C (68°F)

Current / A

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	348.3	412.9	478.8	542.8	579.1	601.9	652.6	692.1	717.7
5	0.08	280.4	315.4	349.2	380.6	397.8	408.4	431.4	448.6	459.2
10	0.17	209.8	228.4	245.8	261.4	269.8	274.9	285.7	293.6	298.2
15	0.25	169.4	181.5	192.5	202.3	207.5	210.6	217.1	221.8	224.4
20	0.33	143.0	151.6	159.4	166.2	169.8	171.9	176.4	179.5	181.2
30	0.50	110.1	115.2	119.8	123.7	125.7	126.9	129.4	131.1	131.9
45	0.75	82.8	85.6	88.2	90.3	91.4	92.1	93.4	94.2	94.6
60	1	66.7	68.6	70.2	71.5	72.2	72.6	73.4	73.9	74.1
120	2	38.2	38.8	39.3	39.6	39.8	40.0	40.2	40.3	40.3
180	3	27.0	27.3	27.5	27.7	27.8	27.8	27.9	27.9	27.9
240	4	21.0	21.1	21.2	21.3	21.4	21.4	21.5	21.5	21.5
300	5	17.2	17.3	17.4	17.4	17.5	17.5	17.5	17.5	17.5
480	8	11.2	11.2	11.3	11.3	11.3	11.3	11.4	11.4	11.4
600	10	9.1	9.1	9.2	9.2	9.2	9.2	9.3	9.3	9.3
1200	20	4.8	4.8	4.9	4.9	4.9	4.9	4.9	4.9	5.0

Capacity / Ah

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	11.6	13.8	16.0	18.1	19.3	20.1	21.8	23.1	23.9
5	0.08	23.4	26.3	29.1	31.7	33.1	34.0	35.9	37.4	38.3
10	0.17	35.0	38.1	41.0	43.6	45.0	45.8	47.6	48.9	49.7
15	0.25	42.4	45.4	48.1	50.6	51.9	52.6	54.3	55.4	56.1
20	0.33	47.7	50.5	53.1	55.4	56.6	57.3	58.8	59.8	60.4
30	0.50	55.1	57.6	59.9	61.9	62.9	63.5	64.7	65.5	66.0
45	0.75	62.1	64.2	66.1	67.7	68.6	69.0	70.0	70.7	70.9
60	1	66.7	68.6	70.2	71.5	72.2	72.6	73.4	73.9	74.1
120	2	76.4	77.5	78.5	79.3	79.7	79.9	80.3	80.5	80.5
180	3	81.0	81.8	82.5	83.0	83.3	83.4	83.7	83.8	83.8
240	4	83.8	84.5	85.0	85.4	85.6	85.7	85.9	85.9	85.9
300	5	85.8	86.3	86.8	87.1	87.3	87.3	87.5	87.5	87.5
480	8	89.4	89.9	90.3	90.6	90.7	90.8	90.9	90.9	90.9
600	10	91.0	91.5	91.9	92.2	92.3	92.4	92.5	92.6	92.6
1200	20	95.6	96.4	97.2	97.8	98.1	98.3	98.7	98.9	99.0

Power / WPC

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	639.0	737.0	833.7	925.1	975.5	1006.7	1074.6	1125.0	1155.2
5	0.08	526.4	580.7	632.0	678.6	703.7	718.9	751.4	774.8	788.2
10	0.17	399.7	429.0	455.9	479.8	492.4	500.0	515.9	527.0	533.1
15	0.25	325.2	344.4	361.7	376.9	384.8	389.5	399.3	406.1	409.6
20	0.33	275.9	289.7	302.0	312.6	318.1	321.4	328.2	332.8	335.1
30	0.50	213.8	222.0	229.3	235.6	238.8	240.6	244.5	247.0	248.2
45	0.75	161.6	166.3	170.4	173.9	175.6	176.7	178.7	180.0	180.6
60	1	130.7	133.8	136.4	138.7	139.8	140.4	141.7	142.5	142.8
120	2	75.4	76.4	77.2	77.9	78.2	78.4	78.8	78.9	79.0
180	3	53.5	54.0	54.4	54.7	54.8	54.9	55.1	55.1	55.1
240	4	41.6	41.9	42.2	42.3	42.4	42.5	42.6	42.6	42.6
300	5	34.1	34.3	34.5	34.6	34.7	34.7	34.8	34.8	34.8
480	8	22.3	22.4	22.5	22.6	22.6	22.6	22.6	22.7	22.7
600	10	18.2	18.3	18.3	18.4	18.4	18.4	18.5	18.5	18.5
1200	20	9.6	9.6	9.7	9.8	9.8	9.8	9.8	9.9	9.9



MX⁺12425F

Discharge tables @ 25°C (77°F)

Current / A

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	386.5	458.2	531.3	602.4	642.6	667.9	724.2	768.0	796.5
5	0.08	305.3	343.4	380.2	414.4	433.1	444.6	469.6	488.4	500.0
10	0.17	225.4	245.4	264.0	280.9	289.9	295.3	307.0	315.4	320.4
15	0.25	180.7	193.5	205.3	215.8	221.3	224.6	231.6	236.6	239.4
20	0.33	151.8	160.9	169.2	176.4	180.2	182.5	187.2	190.5	192.3
30	0.50	116.1	121.5	126.3	130.4	132.5	133.8	136.4	138.2	139.1
45	0.75	86.7	89.7	92.4	94.6	95.8	96.4	97.8	98.7	99.1
60	1	69.6	71.5	73.2	74.6	75.3	75.7	76.6	77.1	77.3
120	2	39.4	40.0	40.5	41.0	41.2	41.3	41.5	41.6	41.6
180	3	27.7	28.0	28.3	28.4	28.5	28.6	28.7	28.7	28.7
240	4	21.5	21.6	21.8	21.9	21.9	21.9	22.0	22.0	22.0
300	5	17.5	17.6	17.7	17.8	17.8	17.8	17.9	17.9	17.9
480	8	11.4	11.4	11.5	11.5	11.5	11.5	11.5	11.5	11.5
600	10	9.2	9.3	9.3	9.3	9.4	9.4	9.4	9.4	9.4
1200	20	4.8	4.9	4.9	4.9	4.9	5.0	5.0	5.0	5.0

Capacity / Ah

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	12.9	15.3	17.7	20.1	21.4	22.3	24.1	25.6	26.5
5	0.08	25.4	28.6	31.7	34.5	36.1	37.1	39.1	40.7	41.7
10	0.17	37.6	40.9	44.0	46.8	48.3	49.2	51.2	52.6	53.4
15	0.25	45.2	48.4	51.3	53.9	55.3	56.2	57.9	59.1	59.8
20	0.33	50.6	53.6	56.4	58.8	60.1	60.8	62.4	63.5	64.1
30	0.50	58.1	60.7	63.1	65.2	66.3	66.9	68.2	69.1	69.5
45	0.75	65.0	67.3	69.3	71.0	71.8	72.3	73.4	74.0	74.3
60	1	69.6	71.5	73.2	74.6	75.3	75.7	76.6	77.1	77.3
120	2	78.9	80.1	81.1	81.9	82.3	82.5	83.0	83.2	83.2
180	3	83.2	84.1	84.8	85.3	85.6	85.7	86.0	86.1	86.1
240	4	85.8	86.5	87.0	87.4	87.6	87.7	87.9	88.0	88.0
300	5	87.6	88.2	88.6	89.0	89.1	89.2	89.3	89.4	89.4
480	8	90.9	91.4	91.7	92.0	92.2	92.2	92.3	92.4	92.4
600	10	92.3	92.7	93.1	93.5	93.6	93.7	93.8	93.9	93.9
1200	20	96.3	97.2	97.9	98.5	98.8	99.0	99.4	99.6	99.8

Power / WPC

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	709.1	817.9	925.2	1026.6	1082.5	1117.2	1192.5	1248.4	1281.9
5	0.08	573.1	632.2	688.1	738.9	766.1	782.7	818.1	843.6	858.2
10	0.17	429.4	460.9	489.9	515.5	529.1	537.2	554.3	566.2	572.8
15	0.25	346.9	367.3	385.8	402.0	410.4	415.4	425.9	433.1	436.9
20	0.33	292.9	307.4	320.5	331.8	337.7	341.2	348.3	353.2	355.7
30	0.50	225.4	234.1	241.8	248.3	251.7	253.7	257.7	260.4	261.7
45	0.75	169.3	174.2	178.5	182.2	184.0	185.1	187.2	188.6	189.2
60	1	136.4	139.5	142.3	144.6	145.8	146.4	147.8	148.6	148.9
120	2	77.9	78.9	79.8	80.5	80.8	81.0	81.4	81.5	81.6
180	3	55.0	55.5	55.9	56.2	56.4	56.5	56.6	56.7	56.7
240	4	42.6	42.9	43.2	43.4	43.4	43.5	43.6	43.6	43.6
300	5	34.9	35.1	35.2	35.4	35.4	35.5	35.5	35.5	35.5
480	8	22.7	22.8	22.9	22.9	23.0	23.0	23.0	23.0	23.0
600	10	18.4	18.5	18.6	18.7	18.7	18.7	18.7	18.7	18.7
1200	20	9.6	9.7	9.8	9.8	9.9	9.9	9.9	9.9	9.9



MX⁺12450F

Discharge tables @ 20°C (68°F)

Current / A

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	413.0	483.1	555.5	628.0	670.5	698.0	762.7	819.4	865.5
5	0.08	335.3	373.9	411.2	445.8	464.7	476.5	502.1	521.7	534.4
10	0.17	250.7	271.5	290.6	307.5	316.4	321.7	332.7	340.0	343.6
15	0.25	202.0	215.6	227.8	238.3	243.6	246.8	253.1	257.0	258.4
20	0.33	170.2	179.9	188.5	195.9	199.5	201.7	205.9	208.3	209.0
30	0.50	130.6	136.4	141.5	145.8	147.9	149.1	151.4	152.7	152.9
45	0.75	97.8	101.2	104.1	106.5	107.6	108.3	109.6	110.2	110.3
60	1	78.6	80.8	82.7	84.3	85.1	85.5	86.4	86.8	86.9
120	2	44.8	45.6	46.2	46.8	47.0	47.2	47.5	47.8	47.9
180	3	31.7	32.0	32.4	32.7	32.8	32.9	33.2	33.3	33.5
240	4	24.6	24.8	25.0	25.2	25.4	25.4	25.6	25.8	25.9
300	5	20.1	20.3	20.5	20.6	20.7	20.8	20.9	21.1	21.2
480	8	13.2	13.3	13.4	13.5	13.5	13.6	13.7	13.7	13.8
600	10	10.8	10.8	10.9	11.0	11.0	11.1	11.1	11.2	11.3
1200	20	5.7	5.8	5.9	5.9	5.9	5.9	6.0	6.0	6.1

Capacity / Ah

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	13.8	16.1	18.5	20.9	22.3	23.3	25.4	27.3	28.9
5	0.08	27.9	31.2	34.3	37.1	38.7	39.7	41.8	43.5	44.5
10	0.17	41.8	45.2	48.4	51.3	52.7	53.6	55.4	56.7	57.3
15	0.25	50.5	53.9	56.9	59.6	60.9	61.7	63.3	64.3	64.6
20	0.33	56.7	60.0	62.8	65.3	66.5	67.2	68.6	69.4	69.7
30	0.50	65.3	68.2	70.8	72.9	74.0	74.6	75.7	76.3	76.4
45	0.75	73.3	75.9	78.0	79.8	80.7	81.2	82.2	82.7	82.7
60	1	78.6	80.8	82.7	84.3	85.1	85.5	86.4	86.8	86.9
120	2	89.6	91.1	92.4	93.5	94.1	94.4	95.1	95.6	95.8
180	3	95.0	96.1	97.1	98.0	98.5	98.8	99.5	100.0	100.5
240	4	98.3	99.3	100.1	100.9	101.4	101.7	102.4	103.0	103.6
300	5	100.7	101.6	102.4	103.1	103.6	103.9	104.6	105.3	105.9
480	8	105.4	106.2	106.9	107.7	108.1	108.4	109.2	110.0	110.8
600	10	107.6	108.4	109.1	109.9	110.4	110.7	111.5	112.3	113.2
1200	20	114.9	116.0	117.0	118.0	118.5	118.9	119.7	120.5	121.2

Power / WPC

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	776.7	882.5	988.1	1090.1	1148.2	1185.1	1269.5	1340.1	1393.9
5	0.08	635.3	694.8	750.8	801.7	829.1	845.8	881.8	908.2	924.3
10	0.17	479.4	512.0	541.6	567.3	580.7	588.6	604.7	615.4	620.2
15	0.25	388.8	410.3	429.4	445.7	454.0	458.8	468.5	474.4	476.4
20	0.33	329.1	344.7	358.3	369.8	375.6	379.0	385.5	389.3	390.3
30	0.50	254.3	263.7	272.0	278.8	282.2	284.1	287.8	289.8	290.1
45	0.75	191.7	197.3	202.0	205.9	207.8	208.9	211.0	212.1	212.2
60	1	154.9	158.6	161.7	164.3	165.6	166.3	167.7	168.4	168.5
120	2	89.2	90.5	91.6	92.5	93.0	93.3	93.8	94.2	94.4
180	3	63.4	64.0	64.6	65.1	65.4	65.5	65.9	66.2	66.4
240	4	49.4	49.8	50.1	50.5	50.7	50.8	51.1	51.3	51.5
300	5	40.5	40.8	41.1	41.4	41.5	41.6	41.8	42.0	42.2
480	8	26.6	26.8	26.9	27.1	27.2	27.2	27.4	27.5	27.7
600	10	21.8	21.9	22.0	22.1	22.2	22.3	22.4	22.5	22.6
1200	20	11.6	11.7	11.8	11.9	11.9	11.9	12.0	12.1	12.1



MX⁺12450F

Discharge tables @ 25°C (77°F)

Current / A

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	458.4	536.1	616.4	696.9	744.0	774.6	846.4	909.3	960.5
5	0.08	365.0	407.1	447.7	485.3	506.0	518.8	546.7	568.0	581.9
10	0.17	269.4	291.7	312.3	330.4	340.0	345.6	357.4	365.3	369.2
15	0.25	215.5	229.9	242.9	254.1	259.9	263.2	270.0	274.2	275.7
20	0.33	180.6	191.0	200.1	207.9	211.8	214.1	218.5	221.1	221.8
30	0.50	137.7	143.8	149.2	153.7	155.9	157.2	159.6	161.0	161.1
45	0.75	102.4	106.0	109.0	111.5	112.7	113.4	114.8	115.5	115.5
60	1	82.0	84.3	86.3	87.9	88.7	89.2	90.1	90.5	90.6
120	2	46.3	47.1	47.7	48.3	48.6	48.8	49.1	49.4	49.5
180	3	32.5	32.9	33.3	33.6	33.7	33.8	34.1	34.3	34.4
240	4	25.2	25.4	25.6	25.8	26.0	26.0	26.2	26.4	26.5
300	5	20.6	20.7	20.9	21.1	21.2	21.2	21.4	21.5	21.6
480	8	13.4	13.5	13.6	13.7	13.7	13.8	13.9	14.0	14.1
600	10	10.9	11.0	11.1	11.1	11.2	11.2	11.3	11.4	11.5
1200	20	5.8	5.8	5.9	5.9	6.0	6.0	6.0	6.1	6.1

Capacity / Ah

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	15.3	17.9	20.5	23.2	24.8	25.8	28.2	30.3	32.0
5	0.08	30.4	33.9	37.3	40.4	42.2	43.2	45.6	47.3	48.5
10	0.17	44.9	48.6	52.0	55.1	56.7	57.6	59.6	60.9	61.5
15	0.25	53.9	57.5	60.7	63.5	65.0	65.8	67.5	68.5	68.9
20	0.33	60.2	63.7	66.7	69.3	70.6	71.4	72.8	73.7	73.9
30	0.50	68.8	71.9	74.6	76.9	78.0	78.6	79.8	80.5	80.6
45	0.75	76.8	79.5	81.8	83.6	84.6	85.1	86.1	86.6	86.7
60	1	82.0	84.3	86.3	87.9	88.7	89.2	90.1	90.5	90.6
120	2	92.6	94.1	95.5	96.6	97.2	97.5	98.2	98.7	99.0
180	3	97.6	98.7	99.8	100.7	101.2	101.5	102.2	102.8	103.2
240	4	100.7	101.6	102.5	103.4	103.8	104.1	104.9	105.5	106.1
300	5	102.9	103.7	104.5	105.3	105.8	106.1	106.8	107.5	108.2
480	8	107.2	107.9	108.6	109.4	109.9	110.2	111.0	111.8	112.6
600	10	109.1	109.9	110.6	111.4	111.9	112.2	113.0	113.9	114.7
1200	20	115.7	116.8	117.9	118.9	119.4	119.8	120.6	121.4	122.1

Power / WPC

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	861.9	979.3	1096.5	1209.7	1274.2	1315.1	1408.8	1487.1	1546.8
5	0.08	691.7	756.5	817.5	872.9	902.7	920.9	960.0	988.9	1006.4
10	0.17	515.1	550.1	581.9	609.6	623.9	632.4	649.8	661.2	666.4
15	0.25	414.7	437.6	458.0	475.4	484.3	489.4	499.7	506.0	508.1
20	0.33	349.3	365.8	380.3	392.5	398.7	402.2	409.1	413.2	414.2
30	0.50	268.0	278.0	286.7	293.9	297.5	299.5	303.4	305.5	305.9
45	0.75	200.8	206.6	211.6	215.7	217.7	218.8	221.0	222.2	222.3
60	1	161.6	165.4	168.7	171.4	172.7	173.4	174.9	175.7	175.8
120	2	92.2	93.5	94.6	95.6	96.0	96.3	96.9	97.3	97.5
180	3	65.1	65.8	66.4	66.9	67.2	67.4	67.7	68.0	68.2
240	4	50.5	51.0	51.4	51.7	51.9	52.0	52.3	52.5	52.7
300	5	41.4	41.7	42.0	42.3	42.4	42.5	42.7	42.9	43.1
480	8	27.0	27.2	27.4	27.5	27.6	27.7	27.8	28.0	28.1
600	10	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9
1200	20	11.7	11.8	11.9	12.0	12.0	12.0	12.1	12.2	12.2



MX+ 12650F

Discharge tables @ 20°C (68°F)

Current / A

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	459.8	545.5	634.2	722.4	773.5	806.3	881.8	944.9	992.1
5	0.08	408.7	464.2	518.5	569.5	597.7	615.2	653.6	682.8	701.6
10	0.17	319.2	351.3	381.5	408.9	423.6	432.5	451.4	464.9	472.5
15	0.25	261.7	283.2	303.0	320.5	329.8	335.3	346.9	354.9	359.1
20	0.33	222.6	238.1	252.2	264.6	271.0	274.9	282.8	288.2	290.8
30	0.50	172.5	181.8	190.1	197.3	201.0	203.2	207.6	210.5	211.8
45	0.75	130.2	135.3	139.9	143.8	145.8	146.9	149.3	150.8	151.5
60	1	105.1	108.3	111.2	113.6	114.8	115.6	117.0	118.0	118.4
120	2	60.4	61.3	62.0	62.7	63.0	63.2	63.6	63.9	64.1
180	3	42.9	43.2	43.5	43.8	44.0	44.0	44.2	44.4	44.5
240	4	33.4	33.6	33.8	33.9	34.0	34.1	34.2	34.3	34.4
300	5	27.5	27.6	27.7	27.8	27.9	27.9	28.0	28.1	28.2
480	8	18.2	18.3	18.4	18.5	18.5	18.5	18.6	18.6	18.7
600	10	15.0	15.1	15.2	15.2	15.3	15.3	15.4	15.4	15.4
1200	20	8.3	8.4	8.5	8.6	8.7	8.7	8.8	8.8	8.8

Capacity / Ah

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	15.3	18.2	21.1	24.1	25.8	26.9	29.4	31.5	33.1
5	0.08	34.1	38.7	43.2	47.5	49.8	51.3	54.5	56.9	58.5
10	0.17	53.2	58.5	63.6	68.2	70.6	72.1	75.2	77.5	78.7
15	0.25	65.4	70.8	75.7	80.1	82.4	83.8	86.7	88.7	89.8
20	0.33	74.2	79.4	84.1	88.2	90.3	91.6	94.3	96.1	96.9
30	0.50	86.3	90.9	95.1	98.6	100.5	101.6	103.8	105.3	105.9
45	0.75	97.6	101.5	104.9	107.8	109.3	110.2	112.0	113.1	113.6
60	1	105.1	108.3	111.2	113.6	114.8	115.6	117.0	118.0	118.4
120	2	120.7	122.5	124.1	125.4	126.0	126.4	127.3	127.8	128.2
180	3	128.6	129.6	130.6	131.4	131.9	132.1	132.7	133.2	133.5
240	4	133.7	134.4	135.1	135.7	136.1	136.3	136.7	137.1	137.5
300	5	137.6	138.1	138.7	139.2	139.5	139.7	140.1	140.5	140.8
480	8	145.7	146.4	147.0	147.6	147.9	148.1	148.6	149.0	149.4
600	10	149.8	150.8	151.6	152.4	152.8	153.0	153.6	154.1	154.4
1200	20	165.2	168.2	170.8	172.9	174.0	174.6	175.8	176.5	176.8

Power / WPC

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	847.1	980.6	1115.6	1247.3	1322.6	1370.6	1480.1	1570.9	1638.6
5	0.08	763.2	851.5	936.2	1014.3	1056.7	1082.8	1139.1	1180.7	1206.1
10	0.17	604.4	656.4	704.4	747.1	769.5	782.9	810.9	829.9	839.3
15	0.25	500.0	534.9	566.6	594.2	608.5	616.9	634.1	645.3	650.1
20	0.33	427.9	453.2	475.9	495.4	505.4	511.2	523.0	530.5	533.4
30	0.50	334.4	349.5	362.9	374.2	379.9	383.3	389.9	393.9	395.3
45	0.75	254.1	262.4	269.7	275.9	278.9	280.7	284.2	286.4	287.1
60	1	205.9	211.1	215.7	219.4	221.3	222.4	224.6	225.9	226.4
120	2	119.0	120.3	121.4	122.4	122.9	123.2	123.8	124.3	124.6
180	3	84.5	84.9	85.3	85.7	85.9	86.1	86.4	86.6	86.9
240	4	65.8	65.9	66.1	66.3	66.5	66.5	66.7	66.9	67.1
300	5	54.0	54.1	54.2	54.3	54.4	54.5	54.6	54.8	54.9
480	8	35.4	35.5	35.6	35.7	35.8	35.8	35.9	36.0	36.1
600	10	28.9	29.1	29.2	29.3	29.4	29.4	29.5	29.6	29.7
1200	20	15.5	15.7	15.9	16.1	16.2	16.3	16.4	16.4	16.4



MX+ 12650F

Discharge tables @ 25°C (77°F)

Current / A

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	510.3	605.4	703.8	801.6	858.3	894.7	978.5	1048.6	1101.0
5	0.08	445.0	505.4	564.5	620.1	650.8	669.8	711.6	743.5	763.9
10	0.17	342.9	377.4	409.9	439.4	455.1	464.7	485.0	499.5	507.6
15	0.25	279.2	302.0	323.1	341.9	351.7	357.7	370.0	378.6	383.0
20	0.33	236.3	252.7	267.7	280.8	287.6	291.7	300.2	305.8	308.6
30	0.50	181.9	191.7	200.4	208.0	211.9	214.2	218.9	221.9	223.3
45	0.75	136.4	141.8	146.6	150.6	152.7	153.9	156.4	158.0	158.7
60	1	109.6	113.0	116.0	118.5	119.8	120.5	122.1	123.0	123.5
120	2	62.4	63.3	64.1	64.8	65.1	65.3	65.7	66.0	66.2
180	3	44.0	44.4	44.7	45.0	45.2	45.3	45.5	45.6	45.7
240	4	34.2	34.4	34.6	34.7	34.8	34.9	35.0	35.1	35.2
300	5	28.1	28.2	28.3	28.4	28.5	28.5	28.6	28.7	28.8
480	8	18.5	18.6	18.7	18.7	18.8	18.8	18.9	18.9	19.0
600	10	15.2	15.3	15.4	15.5	15.5	15.5	15.6	15.6	15.7
1200	20	8.3	8.5	8.6	8.7	8.8	8.8	8.9	8.9	8.9

Capacity / Ah

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	17.0	20.2	23.5	26.7	28.6	29.8	32.6	35.0	36.7
5	0.08	37.1	42.1	47.0	51.7	54.2	55.8	59.3	62.0	63.7
10	0.17	57.2	62.9	68.3	73.2	75.9	77.4	80.8	83.2	84.6
15	0.25	69.8	75.5	80.8	85.5	87.9	89.4	92.5	94.6	95.7
20	0.33	78.8	84.2	89.2	93.6	95.9	97.2	100.1	101.9	102.9
30	0.50	91.0	95.8	100.2	104.0	105.9	107.1	109.4	111.0	111.7
45	0.75	102.3	106.3	109.9	113.0	114.5	115.5	117.3	118.5	119.0
60	1	109.6	113.0	116.0	118.5	119.8	120.5	122.1	123.0	123.5
120	2	124.7	126.6	128.1	129.5	130.2	130.6	131.5	132.1	132.4
180	3	132.1	133.2	134.2	135.1	135.5	135.8	136.4	136.8	137.2
240	4	136.9	137.7	138.4	139.0	139.3	139.5	140.0	140.4	140.8
300	5	140.5	141.1	141.7	142.2	142.5	142.7	143.1	143.5	143.8
480	8	148.1	148.8	149.4	150.0	150.3	150.5	151.0	151.4	151.8
600	10	151.9	152.9	153.7	154.5	154.9	155.2	155.7	156.2	156.6
1200	20	166.4	169.4	172.1	174.2	175.3	175.9	177.1	177.8	178.1

Power / WPC

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	940.1	1088.2	1238.0	1384.1	1467.7	1520.9	1642.5	1743.3	1818.4
5	0.08	830.9	927.1	1019.3	1104.3	1150.5	1178.9	1240.2	1285.6	1313.1
10	0.17	649.4	705.2	756.9	802.7	826.8	841.2	871.2	891.7	901.8
15	0.25	533.3	570.6	604.4	633.8	649.0	658.0	676.4	688.3	693.5
20	0.33	454.1	481.0	505.1	525.8	536.4	542.6	555.1	563.0	566.1
30	0.50	352.5	368.5	382.6	394.5	400.5	404.1	411.0	415.3	416.8
45	0.75	266.1	274.9	282.6	289.0	292.2	294.1	297.7	300.0	300.7
60	1	214.8	220.2	224.9	228.9	230.9	232.0	234.3	235.7	236.2
120	2	122.9	124.3	125.4	126.4	127.0	127.3	127.9	128.4	128.7
180	3	86.8	87.3	87.7	88.1	88.3	88.4	88.8	89.0	89.3
240	4	67.3	67.5	67.7	67.9	68.1	68.1	68.3	68.5	68.7
300	5	55.1	55.2	55.4	55.5	55.6	55.6	55.8	55.9	56.1
480	8	36.0	36.1	36.2	36.3	36.3	36.4	36.5	36.6	36.7
600	10	29.3	29.5	29.6	29.7	29.8	29.8	29.9	30.0	30.1
1200	20	15.6	15.8	16.1	16.2	16.3	16.4	16.5	16.5	16.6



MX+ 12730F

Discharge tables @ 20°C (68°F)

Current / A

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	345.5	443.6	550.1	659.0	722.4	762.6	852.5	920.6	960.4
5	0.08	378.2	446.1	514.5	580.2	617.0	639.9	690.0	727.6	750.2
10	0.17	332.6	372.9	411.7	447.6	467.1	479.1	505.1	524.2	535.8
15	0.25	288.3	315.4	340.9	364.0	376.4	383.9	400.1	411.9	419.0
20	0.33	253.5	273.1	291.3	307.6	316.2	321.5	332.6	340.7	345.4
30	0.50	204.3	216.1	226.8	236.2	241.2	244.1	250.3	254.7	257.2
45	0.75	158.8	165.5	171.4	176.5	179.2	180.7	184.0	186.2	187.3
60	1	130.3	134.6	138.4	141.6	143.2	144.2	146.1	147.4	147.9
120	2	76.7	78.0	79.2	80.1	80.6	80.9	81.4	81.6	81.7
180	3	54.6	55.4	56.0	56.5	56.7	56.8	57.1	57.2	57.2
240	4	42.6	43.1	43.5	43.8	44.0	44.1	44.2	44.3	44.3
300	5	34.9	35.3	35.7	36.0	36.1	36.2	36.3	36.4	36.4
480	8	22.9	23.2	23.5	23.7	23.8	23.9	24.0	24.1	24.2
600	10	18.7	19.0	19.2	19.5	19.6	19.7	19.8	19.9	20.0
1200	20	9.9	10.2	10.5	10.7	10.9	10.9	11.1	11.3	11.4

Capacity / Ah

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	11.5	14.8	18.3	22.0	24.1	25.4	28.4	30.7	32.0
5	0.08	31.5	37.2	42.9	48.4	51.4	53.3	57.5	60.6	62.5
10	0.17	55.4	62.2	68.6	74.6	77.9	79.9	84.2	87.4	89.3
15	0.25	72.1	78.8	85.2	91.0	94.1	96.0	100.0	103.0	104.8
20	0.33	84.5	91.0	97.1	102.5	105.4	107.2	110.9	113.6	115.1
30	0.50	102.2	108.1	113.4	118.1	120.6	122.1	125.2	127.4	128.6
45	0.75	119.1	124.1	128.6	132.4	134.4	135.6	138.0	139.6	140.5
60	1	130.3	134.6	138.4	141.6	143.2	144.2	146.1	147.4	147.9
120	2	153.3	156.1	158.4	160.3	161.2	161.7	162.7	163.3	163.3
180	3	163.9	166.1	167.9	169.4	170.1	170.5	171.2	171.5	171.5
240	4	170.3	172.3	174.0	175.3	176.0	176.3	177.0	177.3	177.3
300	5	174.7	176.7	178.4	179.8	180.5	180.9	181.6	181.9	181.9
480	8	182.9	185.4	187.7	189.5	190.5	191.1	192.2	193.0	193.4
600	10	186.5	189.6	192.3	194.6	195.8	196.5	198.1	199.3	200.0
1200	20	198.9	204.5	209.6	214.4	217.0	218.7	222.5	225.7	228.4

Power / WPC

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	656.5	804.7	958.4	1109.0	1193.7	1246.6	1361.5	1444.7	1489.3
5	0.08	714.8	817.5	917.7	1011.1	1062.1	1093.4	1160.5	1208.8	1235.9
10	0.17	631.3	692.9	750.7	803.1	831.0	848.0	884.1	909.8	924.4
15	0.25	549.8	591.6	630.1	664.4	682.5	693.4	716.4	732.8	741.9
20	0.33	485.6	516.1	543.8	568.3	581.1	588.8	604.9	616.2	622.5
30	0.50	394.1	412.6	429.2	443.7	451.1	455.6	464.8	471.1	474.5
45	0.75	308.7	319.3	328.7	336.7	340.8	343.2	348.1	351.4	353.0
60	1	254.7	261.6	267.6	272.7	275.3	276.8	279.8	281.8	282.6
120	2	151.7	154.0	156.0	157.6	158.3	158.8	159.6	160.1	160.1
180	3	108.8	110.1	111.1	112.0	112.4	112.6	113.0	113.2	113.2
240	4	85.1	86.0	86.7	87.3	87.6	87.8	88.0	88.2	88.2
300	5	70.0	70.7	71.3	71.8	72.1	72.2	72.4	72.6	72.6
480	8	46.0	46.5	47.0	47.4	47.6	47.7	48.0	48.1	48.2
600	10	37.5	38.0	38.5	38.9	39.1	39.2	39.5	39.6	39.8
1200	20	19.9	20.4	20.8	21.2	21.4	21.5	21.8	22.0	22.2



MX⁺12730F

Discharge tables @ 25°C (77°F)

Current / A

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	383.4	492.2	610.4	731.3	801.6	846.3	946.1	1021.6	1065.7
5	0.08	411.8	485.7	560.2	631.8	671.8	696.7	751.3	792.2	816.8
10	0.17	357.4	400.7	442.4	480.9	501.9	514.8	542.7	563.3	575.7
15	0.25	307.5	336.4	363.6	388.2	401.4	409.5	426.8	439.4	446.9
20	0.33	269.1	289.9	309.2	326.5	335.6	341.2	353.0	361.6	366.6
30	0.50	215.4	227.8	239.1	249.0	254.2	257.4	263.9	268.5	271.1
45	0.75	166.4	173.4	179.6	184.9	187.7	189.3	192.7	195.0	196.2
60	1	135.9	140.4	144.3	147.7	149.4	150.4	152.4	153.7	154.3
120	2	79.2	80.6	81.8	82.8	83.3	83.5	84.1	84.3	84.4
180	3	56.1	56.9	57.5	58.0	58.3	58.4	58.6	58.7	58.7
240	4	43.6	44.1	44.5	44.9	45.1	45.1	45.3	45.4	45.4
300	5	35.7	36.1	36.5	36.7	36.9	36.9	37.1	37.2	37.2
480	8	23.2	23.6	23.8	24.1	24.2	24.3	24.4	24.5	24.6
600	10	18.9	19.2	19.5	19.7	19.9	19.9	20.1	20.2	20.3
1200	20	10.0	10.3	10.6	10.8	10.9	11.0	11.2	11.4	11.5

Capacity / Ah

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	12.8	16.4	20.3	24.4	26.7	28.2	31.5	34.1	35.5
5	0.08	34.3	40.5	46.7	52.6	56.0	58.1	62.6	66.0	68.1
10	0.17	59.6	66.8	73.7	80.2	83.7	85.8	90.4	93.9	96.0
15	0.25	76.9	84.1	90.9	97.1	100.4	102.4	106.7	109.8	111.7
20	0.33	89.7	96.6	103.1	108.8	111.9	113.7	117.7	120.5	122.2
30	0.50	107.7	113.9	119.6	124.5	127.1	128.7	132.0	134.3	135.6
45	0.75	124.8	130.0	134.7	138.7	140.8	142.0	144.5	146.3	147.1
60	1	135.9	140.4	144.3	147.7	149.4	150.4	152.4	153.7	154.3
120	2	158.4	161.2	163.6	165.6	166.5	167.1	168.1	168.7	168.7
180	3	168.4	170.7	172.6	174.1	174.8	175.2	175.9	176.2	176.2
240	4	174.4	176.4	178.2	179.6	180.2	180.6	181.2	181.5	181.5
300	5	178.4	180.5	182.3	183.7	184.4	184.7	185.5	185.8	185.8
480	8	185.8	188.4	190.7	192.6	193.6	194.2	195.3	196.1	196.6
600	10	189.1	192.2	194.9	197.3	198.5	199.3	200.9	202.0	202.8
1200	20	200.3	206.0	211.2	216.0	218.6	220.3	224.1	227.4	230.1

Power / WPC

Duration		End of Discharge Voltage								
Minutes	Hours	1.85	1.80	1.75	1.70	1.67	1.65	1.60	1.55	1.50
2	0.03	728.5	893.0	1063.6	1230.6	1324.7	1383.4	1510.9	1603.2	1652.7
5	0.08	778.2	890.1	999.2	1100.9	1156.4	1190.5	1263.5	1316.2	1345.6
10	0.17	678.2	744.4	806.6	862.8	892.9	911.2	949.9	977.6	993.2
15	0.25	586.4	631.0	672.1	708.6	728.0	739.6	764.2	781.6	791.3
20	0.33	515.3	547.7	577.2	603.1	616.7	624.9	642.0	654.0	660.7
30	0.50	415.4	435.0	452.5	467.7	475.6	480.3	490.0	496.7	500.2
45	0.75	323.3	334.5	344.3	352.7	357.0	359.5	364.7	368.1	369.7
60	1	265.6	272.8	279.2	284.5	287.2	288.7	291.9	293.9	294.8
120	2	156.7	159.1	161.1	162.8	163.6	164.0	164.9	165.3	165.4
180	3	111.8	113.1	114.2	115.1	115.5	115.7	116.1	116.3	116.3
240	4	87.1	88.0	88.8	89.4	89.7	89.9	90.2	90.3	90.3
300	5	71.5	72.2	72.9	73.4	73.6	73.7	74.0	74.1	74.1
480	8	46.7	47.3	47.8	48.2	48.4	48.5	48.7	48.9	49.0
600	10	38.1	38.6	39.0	39.4	39.6	39.7	40.0	40.2	40.3
1200	20	20.1	20.6	21.0	21.3	21.6	21.7	22.0	22.2	22.4