



**Specification**

Nominal Voltage	12V
Number of cell	6
Nominal Capacity	33Ah@10hr-rate (3.3A to 1.80V/cell @25°C)
Weight	Approx.10.2Kg
Terminal	F21
Container Material	ABS (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.
Rated Capacity	34.2Ah 20hr-rate (1.71A to 1.80V/cell @25°C)
	33.0Ah 10hr-rate (3.30A to 1.80V/cell @25°C)
	29.2Ah 5hr-rate (5.85A to 1.75V/cell @25°C)
	21.4Ah 1hr-rate (21.4A to 1.60V/cell @25°C)
Max. Discharge Current	495A(5sec)
Internal Resistance	Approx.10.0mΩ(Fully charged)
Operating Temp. Range	Discharge: -40°C~60°C
	Charge : -20°C~50°C
	Storage : -40°C~60°C
Cycle Use	Charging Current: ≤6.6A
	Voltage: 14.2V~14.4V
	Temperature compensation: -30mV/°C
Standby Use	Charging Current: No limit
	Voltage: 13.6V~13.8V
	Temperature compensation: -20mV/°C
Self-Discharge	less than 1% at 25°C
Design Life	15 years (floating charge)

**Introduction**

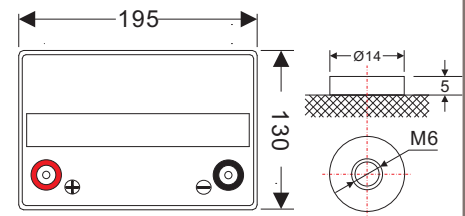
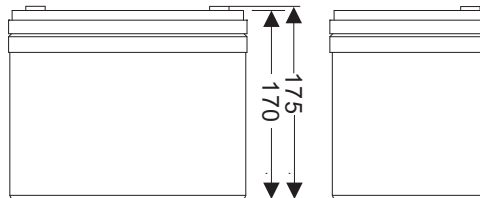
The MOTOMA GEL-TECH batteries designed with 15+ years service life. The SOLID-GEL system can avoid corrosion and stratification. The special separator can properly prevent short-circuit. It can offer high deep discharge ability, super thermal stability, good recovery-ability after deep discharging. The deep discharge cycles of GEL-TECH batteries can be more than 50% compared with other normal AGM batteries.

**Applications**

- ◆ Auto control system & ATM machine
- ◆ Electronic apparatus and equipment
- ◆ Emergency light & Emergency backup power supply & Alarm/Security system
- ◆ Power generation system (solar and wind power system, etc.)
- ◆ Communication power & DC power
- ◆ Electric Power System (EPS)
- ◆ Uninterruptable Power System (UPS)
- ◆ .....

**Dimensions**

Length	195±1mm (7.67 inches)
Width	130±1mm (5.12 inches)
Height	170±1mm (6.69 inches)
Total Height	175±1mm (6.88 inches)



Unit: mm

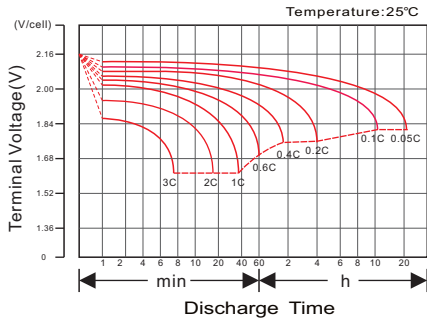
**Constant Current Discharge Characteristics: A (25°C)**

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	115.9	83.05	60.43	37.93	21.44	12.24	8.610	7.125	6.000	4.141	3.502	1.852
1.65V/cell	112.8	79.02	59.19	37.31	21.34	12.15	8.577	7.092	5.965	4.108	3.468	1.818
1.70V/cell	106.3	76.24	58.26	36.98	21.14	12.06	8.511	7.059	5.930	4.074	3.434	1.784
1.75V/cell	95.45	70.35	55.47	36.05	20.95	11.96	8.478	6.993	5.859	4.040	3.401	1.751
1.80V/cell	86.15	64.15	51.13	34.47	20.45	11.75	8.247	6.828	5.753	3.973	3.367	1.717
1.85V/cell	75.00	57.33	45.87	32.29	19.43	11.23	7.884	6.498	5.506	3.805	3.266	1.616

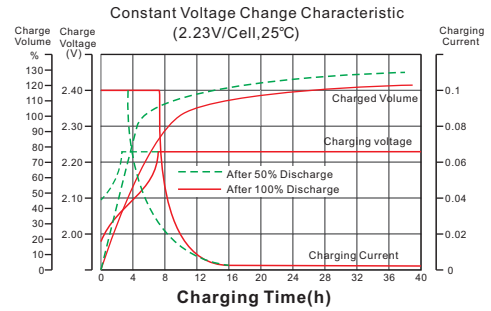
**Constant Power Discharge Characteristics: W (25°C)**

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	1208	883.2	650.3	428.1	245.2	140.8	99.36	82.34	69.46	48.06	39.37	20.80
1.65V/cell	1183	843.5	636.8	422.8	244.0	140.3	99.16	82.14	69.04	47.85	38.97	20.60
1.70V/cell	1117	815.4	628.1	417.8	242.3	139.0	98.56	81.74	68.83	47.45	38.77	20.39
1.75V/cell	1006	753.5	598.9	408.3	239.9	137.7	97.97	81.15	68.19	47.05	38.36	20.19
1.80V/cell	904.6	684.1	550.3	389.7	233.9	135.7	95.60	78.97	67.13	46.04	37.96	19.99
1.85V/cell	780.9	607.6	491.4	365.2	221.7	129.4	90.85	75.21	63.74	44.42	36.75	19.18

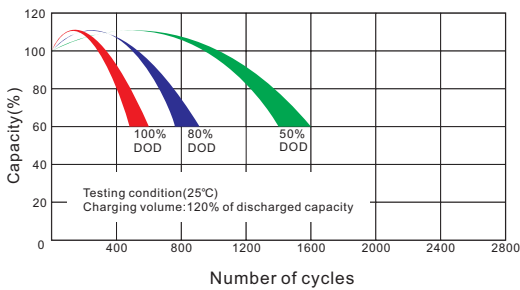
**Discharge Characteristics Curve**



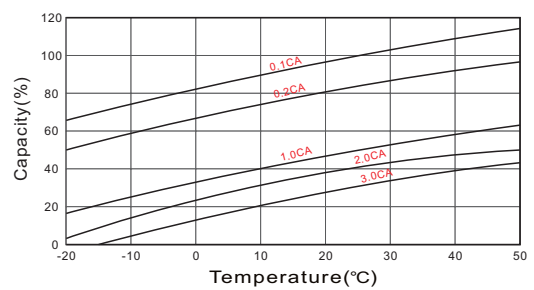
**Charging Characteristics Curve**



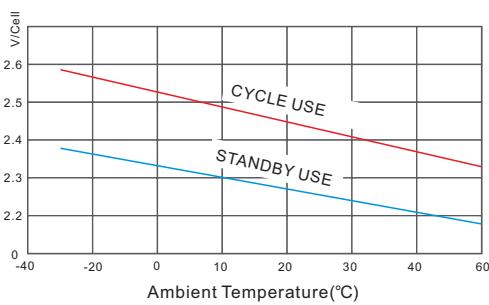
**Cycle life in relation to depth of Discharge**



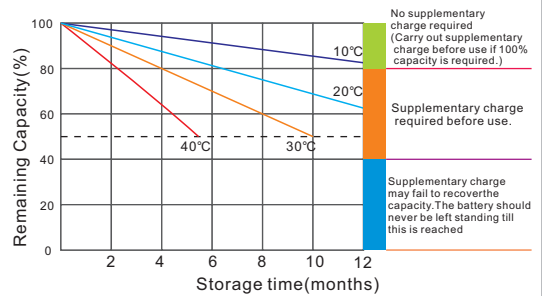
**Temperature effects on Capacity**



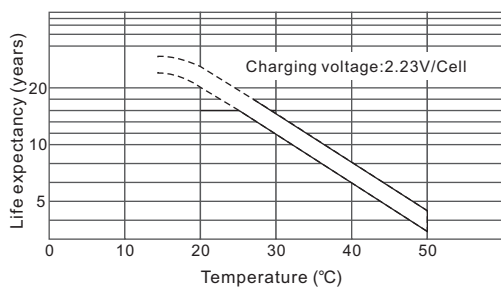
**Relationship between charging voltage and temperature**



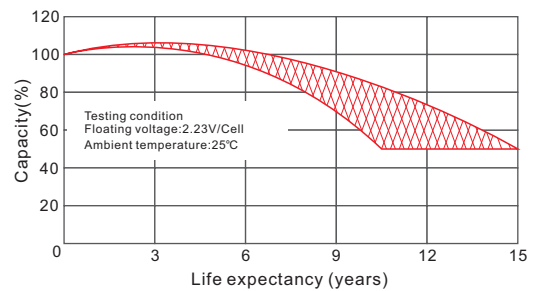
**Self-discharge Characteristics**



**Temperature effects on Float life**



**Life Characteristics of Standby use**





**Specification**

Nominal Voltage	12V
Number of cell	6
Nominal Capacity	40Ah@10hr-rate (4.0A to 1.80V/cell @25°C)
Weight	Approx. 12.5Kg
Terminal	M6, Φ=14
Container Material	ABS (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.
Rated Capacity	41.1Ah 20hr-rate (2.06A to 1.80V/cell @25°C) 40.3Ah 10hr-rate (4.03A to 1.80V/cell @25°C) 33.5Ah 5hr-rate (6.70A to 1.75V/cell @25°C) 24.5Ah 1hr-rate (24.5A to 1.60V/cell @25°C)
Max. Discharge Current	400A(5sec)
Internal Resistance	Approx. 9.0mΩ(Fully charged)
Operating Temp. Range	Discharge: -40°C~60°C Charge : -20°C~50°C Storage : -40°C~60°C
Cycle Use	Charging Current: ≤12.0A Voltage: 14.2V~14.4V Temperature compensation: -30mV/°C
Standby Use	Charging Current: No limit Voltage: 13.6V~13.8V Temperature compensation: -20mV/°C
Self-Discharge	less than 1% at 25°C
Design Life	15 years (floating charge)

**Introduction**

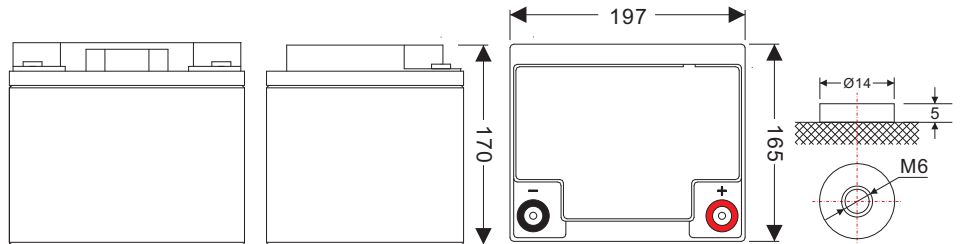
The MOTOMA GEL-TECH batteries designed with 15+ years service life. The SOLID-GEL system can avoid corrosion and stratification. The special separator can properly prevent short-circuit. It can offer high deep discharge ability, super thermal stability, good recovery-ability after deep discharging. The deep discharge cycles of GEL-TECH batteries can be more than 50% compared with other normal AGM batteries.

**Applications**

- ◆ Auto control system & ATM machine
- ◆ Electronic apparatus and equipment
- ◆ Emergency light & Emergency backup power supply & Alarm/Security system
- ◆ Power generation system (solar and wind power system, etc.)
- ◆ Communication power & DC power
- ◆ Electric Power System (EPS)
- ◆ Uninterruptable Power System (UPS)
- ◆ .....

**Dimensions**

Length	197±1mm (7.76 inches)
Width	165±1mm (6.50 inches)
Height	172±1mm (6.69 inches)
Total Height	172±1mm (6.69 inches)



Unit: mm

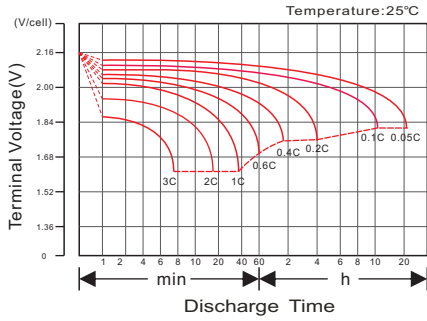
**Constant Current Discharge Characteristics: A (25°C)**

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	132.5	94.9	69.1	43.35	24.50	13.99	9.84	8.14	6.86	4.868	4.192	2.217
1.65V/cell	128.9	90.3	67.6	42.64	24.39	13.88	9.80	8.11	6.82	4.829	4.152	2.177
1.70V/cell	121.5	87.1	66.6	42.26	24.17	13.78	9.73	8.07	6.78	4.789	4.112	2.137
1.75V/cell	109.1	80.4	63.4	41.21	23.94	13.67	9.69	7.99	6.70	4.749	4.072	2.096
1.80V/cell	98.5	73.3	58.44	39.40	23.37	13.43	9.42	7.80	6.58	4.670	4.031	2.056
1.85V/cell	85.7	65.5	52.42	36.91	22.20	12.83	9.01	7.43	6.29	4.472	3.910	1.935

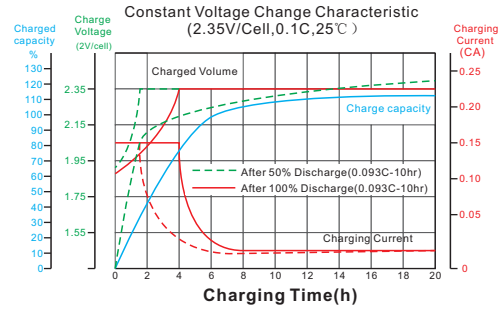
**Constant Power Discharge Characteristics: W (25°C)**

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	1380	1009	743	489.3	280.3	160.9	113.5	94.1	79.4	56.49	47.14	24.90
1.65V/cell	1352	964	728	483.2	278.9	160.3	113.3	93.9	78.9	56.25	46.66	24.66
1.70V/cell	1276	932	718	477.5	276.9	158.8	112.6	93.4	78.7	55.78	46.42	24.42
1.75V/cell	1149	861	684	466.6	274.1	157.4	112.0	92.7	77.9	55.30	45.93	24.18
1.80V/cell	1034	782	629	445.4	267.4	155.0	109.3	90.3	76.7	54.12	45.45	23.93
1.85V/cell	892	694	561.6	417.3	253.3	147.9	103.8	86.0	72.9	52.22	44.00	22.97

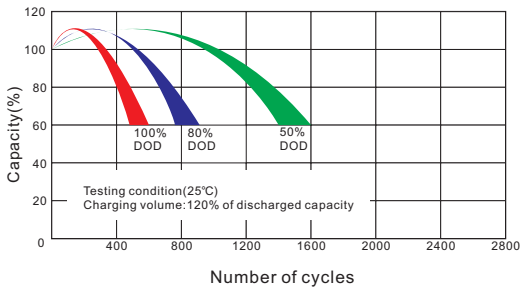
**Discharge Characteristics Curve**



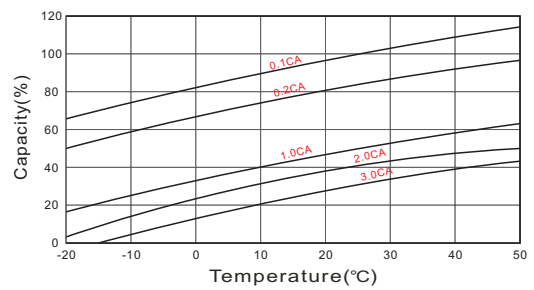
**Charging Characteristics Curve**



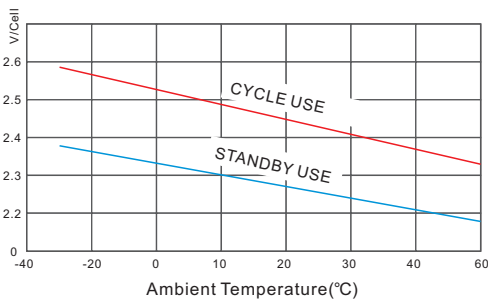
**Cycle life in relation to depth of Discharge**



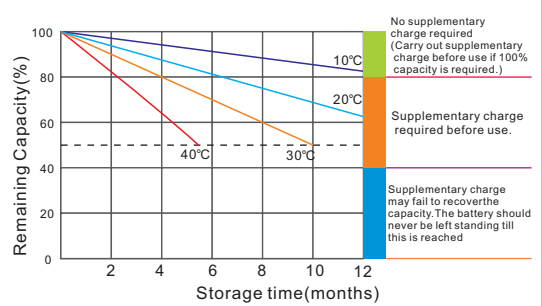
**Temperature effects on Capacity**



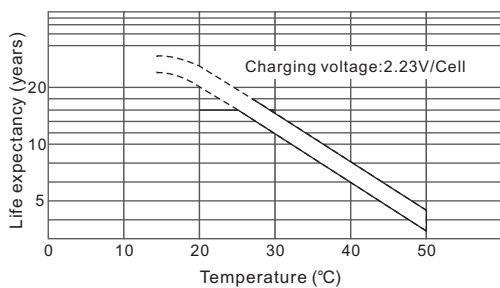
**Relationship between charging voltage and temperature**



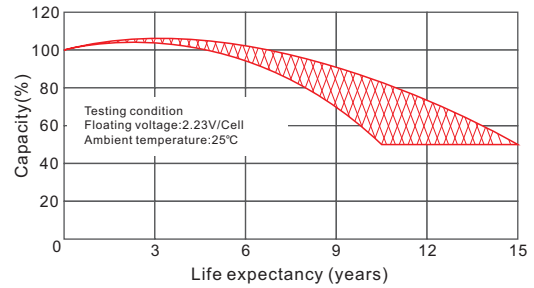
**Self-discharge Characteristics**



**Temperature effects on Float life**



**Life Characteristics of Standby use**



**Specification**

Nominal Voltage	12V
Number of cell	6
Nominal Capacity	55Ah@10hr-rate (5.5A to 1.80V/cell @25 °C)
Weight	Approx. 16.5Kg
Terminal	F21
Container Material	ABS (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.
Rated Capacity	56.0Ah 20hr-rate (2.80A to 1.80V/cell @25°C)
	55.0Ah 10hr-rate (5.50A to 1.80V/cell @25°C)
	47.8Ah 5hr-rate (9.57A to 1.75V/cell @25°C)
	35.0Ah 1hr-rate (35.0A to 1.60V/cell @25°C)
Max. Discharge Current	825A(5sec)
Internal Resistance	Approx. 7.0mΩ(Fully charged)
Operating Temp. Range	Discharge: -40°C~60°C
	Charge : -20°C~50°C
	Storage : -40°C~60°C
Cycle Use	Charging Current: ≤6.6A
	Voltage: 14.2V~14.4V
	Temperature compensation: -30mV/°C
Standby Use	Charging Current: No limit
	Voltage: 13.6V~13.8V
	Temperature compensation: -20mV/°C
Self-Discharge	less than 1% at 25°C
Design Life	15 years (floating charge)



**Introduction**

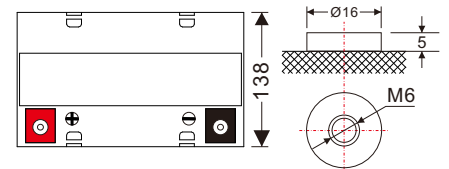
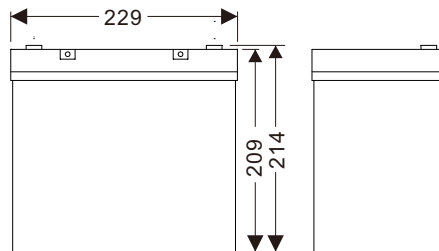
The MOTOMA GEL-TECH batteries designed with 15+ years service life. The SOLID-GEL system can avoid corrosion and stratification. The special separator can properly prevent short-circuit. It can offer high deep discharge ability, super thermal stability, good recovery-ability after deep discharging. The deep discharge cycles of GEL-TECH batteries can be more than 50% compared with other normal AGM batteries.

**Applications**

- ◆ Auto control system & ATM machine
- ◆ Electronic apparatus and equipment
- ◆ Emergency light & Emergency backup power supply & Alarm/Security system
- ◆ Power generation system (solar and wind power system, etc.)
- ◆ Communication power & DC power
- ◆ Electric Power System (EPS)
- ◆ Uninterruptable Power System (UPS)
- ◆ .....

**Dimensions**

Length	229±1mm (9.01 inches)
Width	138±1mm (5.43 inches)
Height	209±1mm (8.22 inches)
Total Height	214±1mm (8.42 inches)



Unit: mm

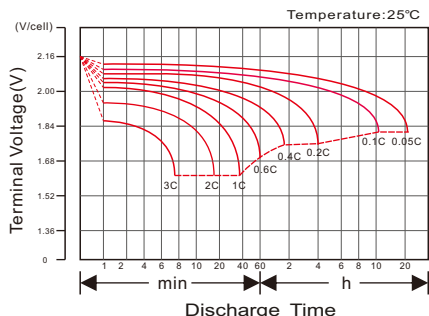
**Constant Current Discharge Characteristics: A (25°C)**

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	189.4	135.7	98.76	62.00	35.04	20.00	14.07	11.64	9.806	6.768	5.723	3.026
1.65V/cell	184.4	129.1	96.73	60.97	34.88	19.85	14.02	11.59	9.749	6.713	5.668	2.971
1.70V/cell	173.7	124.6	95.22	60.43	34.56	19.70	13.91	11.54	9.691	6.658	5.613	2.916
1.75V/cell	156.0	115.0	90.66	58.92	34.23	19.55	13.85	11.43	9.575	6.603	5.558	2.861
1.80V/cell	140.8	104.8	83.57	56.34	33.42	19.20	13.48	11.16	9.402	6.493	5.503	2.806
1.85V/cell	122.6	93.70	74.96	52.78	31.75	18.35	12.88	10.62	8.999	6.218	5.338	2.641

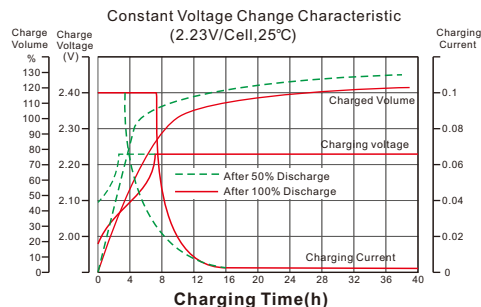
**Constant Power Discharge Characteristics: W (25°C)**

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	1974	1443	1063	699.6	400.8	230.1	162.4	134.6	113.5	78.54	64.35	33.99
1.65V/cell	1934	1379	1041	690.9	398.8	229.2	162.1	134.2	112.8	78.21	63.69	33.66
1.70V/cell	1825	1333	1027	682.8	395.9	227.1	161.1	133.6	112.5	77.55	63.36	33.33
1.75V/cell	1644	1231	978.8	667.3	392.0	225.0	160.1	132.6	111.4	76.89	62.70	33.00
1.80V/cell	1478	1118	899.3	636.9	382.3	221.7	156.2	129.1	109.7	75.24	62.04	32.67
1.85V/cell	1276	993.0	803.1	596.8	362.3	211.5	148.5	122.9	104.2	72.60	60.06	31.35

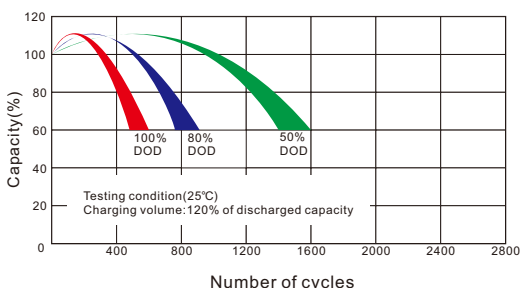
**Discharge Characteristics Curve**



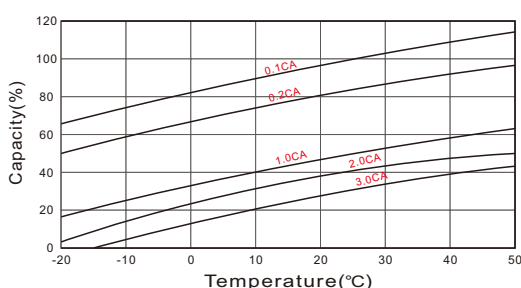
**Charging Characteristics Curve**



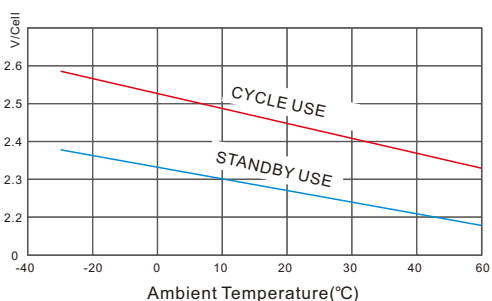
**Cycle life in relation to depth of Discharge**



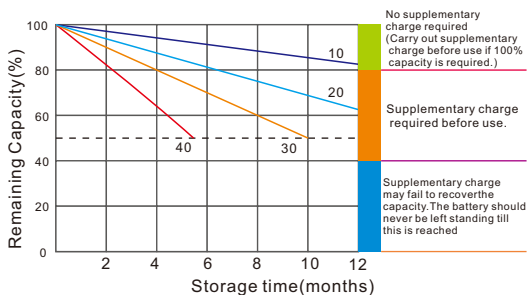
**Temperature effects on Capacity**



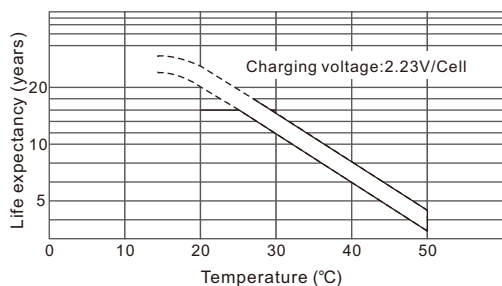
**Relationship between charging voltage and temperature**



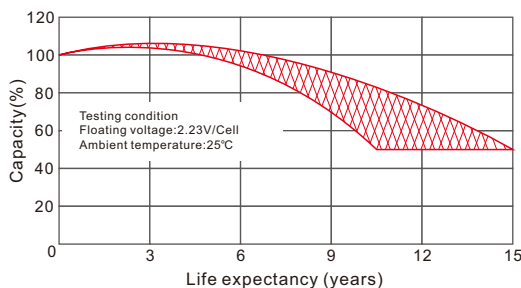
**Self-discharge Characteristics**



**Temperature effects on Float life**



**Life Characteristics of Standby use**



**Specification**

Nominal Voltage	12V
Number of cell	6
Nominal Capacity	100Ah@10hr-rate (10.0A to 1.80V/cell @25°C)
Weight	Approx.31.5Kg
Terminal	M6,Φ=14&18
Container Material	ABS (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.
Rated Capacity	102.8Ah 20hr-rate (5.14A to 1.80V/cell @25°C)
	100.0Ah 10hr-rate (10.0A to 1.80V/cell @25°C)
	83.0Ah 5hr-rate (16.6A to 1.75V/cell @25°C)
	61.2Ah 1hr-rate (61.2A to 1.60V/cell @25°C)
Max. Discharge Current	500A(5sec)
Internal Resistance	Approx.3.5mΩ(Fully charged)
Operating Temp. Range	Discharge: -40°C~60°C
	Charge : -20°C~50°C
	Storage : -40°C~60°C
Cycle Use	Charging Current:≤20.0A
	Voltage:14.2V~14.4V
	Temperature compensation:-30mV/°C
Standby Use	Charging Current:No limit
	Voltage:13.6V~13.8V
	Temperature compensation:-20mV/°C
Self-Discharge	less than 1% at 25°C
Design Life	15 years (floating charge)



**Introduction**

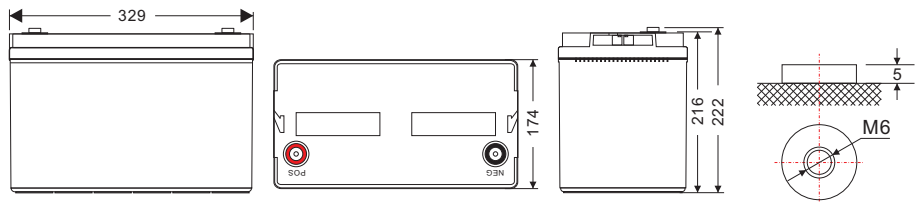
The MOTOMA GEL-TECH batteries designed with 15+ years service life. The SOLID-GEL system can avoid corrosion and stratification. The special separator can properly prevent short-circuit. It can offer high deep discharge ability, super thermal stability, good recovery-ability after deep discharging. The deep discharge cycles of GEL-TECH batteries can be more than 50% compared with other normal AGM batteries.

**Applications**

- ◆ Auto control system & ATM machine
- ◆ Electronic apparatus and equipment
- ◆ Emergency light & Emergency backup power supply & Alarm/Security system
- ◆ Power generation system (solar and wind power system, etc.)
- ◆ Communication power & DC power
- ◆ Electric Power System (EPS)
- ◆ Uninterruptable Power System (UPS)
- ◆ .....

**Dimensions**

Length	329±1mm (12.95 inches)
Width	174±1mm (6.85 inches)
Height	216±1mm (8.50 inches)
Total Height	222±1mm (8.74 inches)



Unit: mm

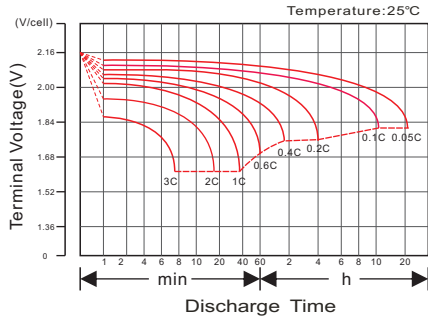
**Constant Current Discharge Characteristics: A (25°C)**

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	331.1	237.3	172.7	108.4	61.26	34.97	24.60	20.36	17.14	12.17	10.48	5.543
1.65V/cell	322.3	225.8	169.1	106.6	60.98	34.71	24.50	20.26	17.04	12.07	10.38	5.442
1.70V/cell	303.7	217.8	166.5	105.7	60.41	34.45	24.32	20.17	16.94	11.97	10.28	5.341
1.75V/cell	272.7	201.0	158.5	103.0	59.85	34.18	24.22	19.98	16.74	11.87	10.18	5.241
1.80V/cell	246.1	183.3	146.1	98.49	58.43	33.57	23.56	19.51	16.44	11.68	10.08	5.140
1.85V/cell	214.3	163.8	131.0	92.27	55.51	32.08	22.53	18.57	15.73	11.18	9.776	4.837

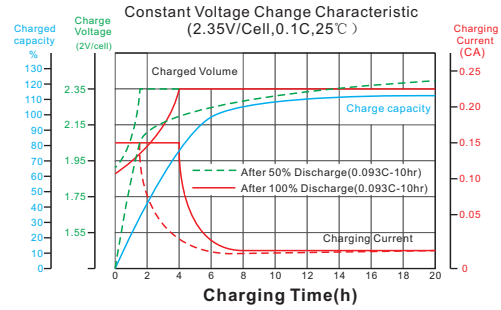
**Constant Power Discharge Characteristics: W (25°C)**

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	3451	2523	1858	1223	700.6	402.3	283.9	235.2	198.5	141.2	117.9	62.25
1.65V/cell	3380	2410	1819	1208	697.2	400.7	283.3	234.7	197.3	140.6	116.6	61.65
1.70V/cell	3191	2330	1795	1194	692.2	397.1	281.6	233.5	196.6	139.4	116.0	61.04
1.75V/cell	2873	2153	1711	1167	685.4	393.4	279.9	231.9	194.8	138.3	114.8	60.44
1.80V/cell	2585	1955	1572	1113	668.4	387.6	273.1	225.6	191.8	135.3	113.6	59.83
1.85V/cell	2231	1736	1404	1043	633.3	369.7	259.6	214.9	182.1	130.5	110.0	57.42

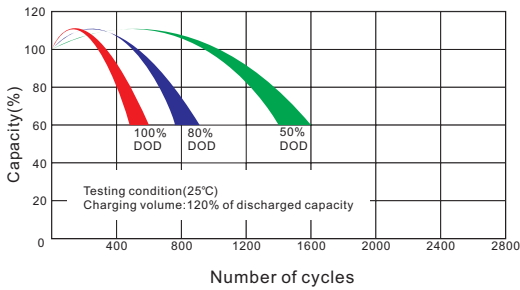
**Discharge Characteristics Curve**



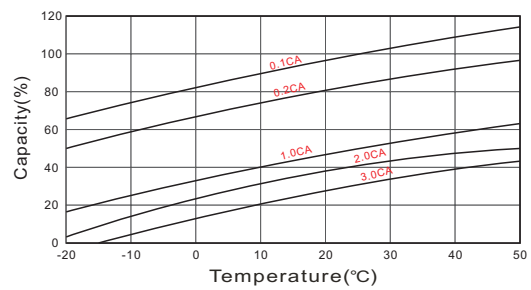
**Charging Characteristics Curve**



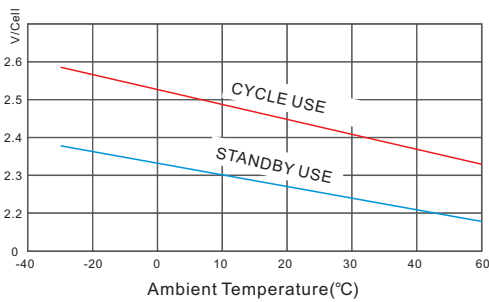
**Cycle life in relation to depth of Discharge**



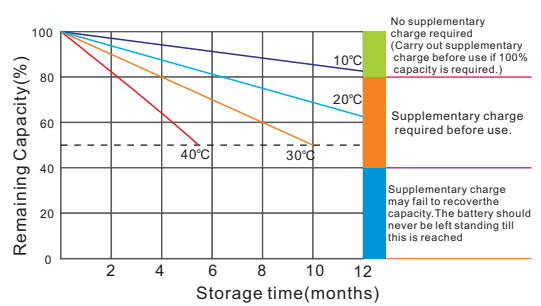
**Temperature effects on Capacity**



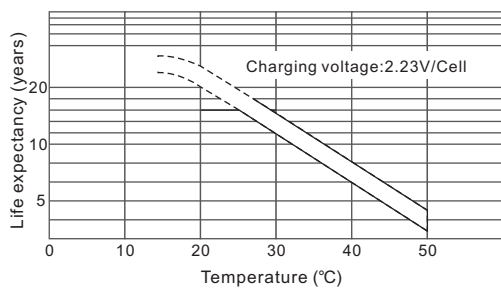
**Relationship between charging voltage and temperature**



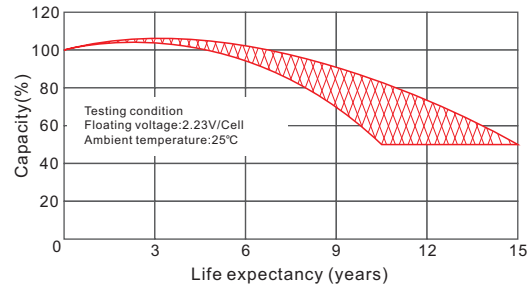
**Self-discharge Characteristics**



**Temperature effects on Float life**



**Life Characteristics of Standby use**





**Specification**

Nominal Voltage	12V
Number of cell	6
Nominal Capacity	150Ah@10hr-rate (15.0A to 1.80V/cell @25°C)
Weight	Approx.43.8Kg
Terminal	M8,Φ=16&18
Container Material	ABS (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.
Rated Capacity	154.2Ah 20hr-rate (7.71A to 1.80V/cell @25°C)
	150.0Ah 10hr-rate (15.0A to 1.80V/cell @25°C)
	125.5Ah 5hr-rate (25.10A to 1.75V/cell @25°C)
	91.5Ah 1hr-rate (91.5A to 1.60V/cell @25°C)
Max. Discharge Current	750A(5sec)
Internal Resistance	Approx.3.4mΩ(Fully charged)
Operating Temp. Range	Discharge: -40°C~60°C
	Charge : -20°C~50°C
	Storage : -40°C~60°C
Cycle Use	Charging Current:≤30.0A
	Voltage:14.2V~14.4V
	Temperature compensation:-30mV/°C
Standby Use	Charging Current:No limit
	Voltage:13.6V~13.8V
	Temperature compensation:-20mV/°C
Self-Discharge	less than 1% at 25°C
Design Life	15 years (floating charge)



**Introduction**

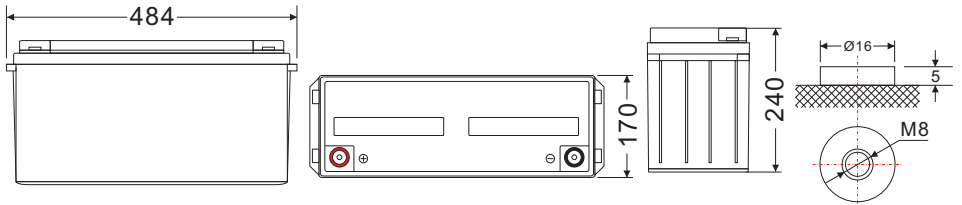
The MOTOMA GEL-TECH batteries designed with 15+ years service life. The SOLID-GEL system can avoid corrosion and stratification. The special separator can properly prevent short-circuit. It can offer high deep discharge ability, super thermal stability, good recovery-ability after deep discharging. The deep discharge cycles of GEL-TECH batteries can be more than 50% compared with other normal AGM batteries.

**Applications**

- ◆ Auto control system & ATM machine
- ◆ Electronic apparatus and equipment
- ◆ Emergency light & Emergency backup power supply & Alarm/Security system
- ◆ Power generation system (solar and wind power system, etc.)
- ◆ Communication power & DC power
- ◆ Electric Power System (EPS)
- ◆ Uninterruptable Power System (UPS)
- ◆ .....

**Dimensions**

Length	484±1mm (19.05 inches)
Width	170±1mm (6.69 inches)
Height	240±1mm (9.45 inches)
Total Height	240±1mm (9.45 inches)



Unit: mm

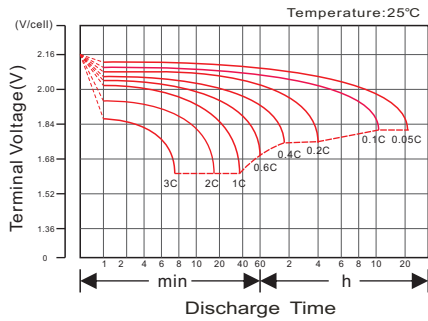
**Constant Current Discharge Characteristics: A (25°C)**

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	496.7	355.9	259.0	162.6	91.89	52.46	36.90	30.54	25.72	18.26	15.72	8.314
1.65V/cell	483.4	338.7	253.7	159.9	91.47	52.06	36.76	30.39	25.56	18.11	15.57	8.163
1.70V/cell	455.6	326.7	249.7	158.5	90.62	51.67	36.47	30.25	25.41	17.96	15.42	8.012
1.75V/cell	409.1	301.5	237.7	154.5	89.77	51.28	36.33	29.97	25.11	17.81	15.27	7.861
1.80V/cell	369.2	274.9	219.1	147.7	87.65	50.36	35.34	29.26	24.66	17.51	15.12	7.710
1.85V/cell	321.4	245.7	196.6	138.4	83.27	48.12	33.79	27.85	23.60	16.77	14.66	7.256

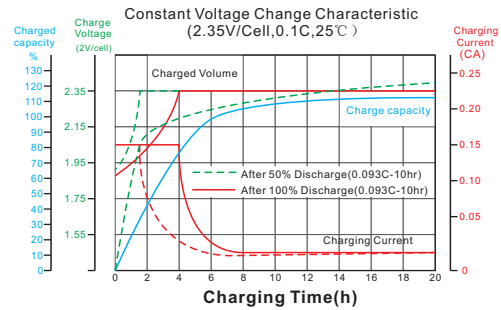
**Constant Power Discharge Characteristics: W (25°C)**

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	473.1	3459	2547	1835	1051	603.5	425.8	352.9	297.7	211.8	176.8	93.38
1.65V/cell	463.4	3304	2494	1812	1046	601.1	425.0	352.0	295.9	211.0	175.0	92.47
1.70V/cell	437.5	3194	2460	1791	1038	595.6	422.4	350.3	295.0	209.2	174.1	91.56
1.75V/cell	393.9	2951	2346	1750	1028	590.1	419.9	347.8	292.2	207.4	172.2	90.66
1.80V/cell	354.3	2680	2156	1670	1003	581.4	409.7	338.4	287.7	202.9	170.4	89.75
1.85V/cell	305.9	2380	1925	1565	950.0	554.6	389.3	322.3	273.2	195.8	165.0	86.12

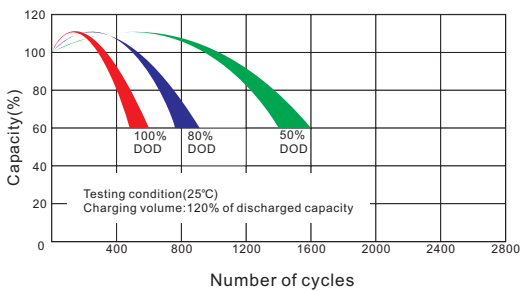
**Discharge Characteristics Curve**



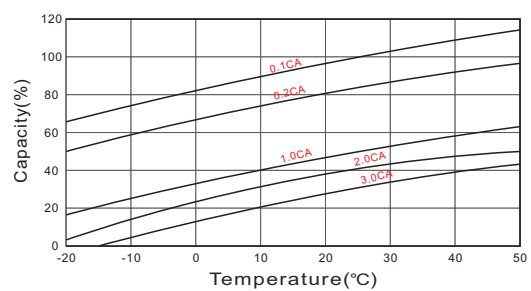
**Charging Characteristics Curve**



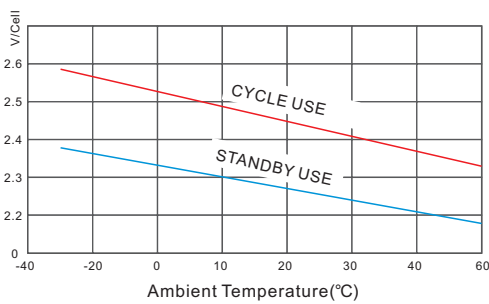
**Cycle life in relation to depth of Discharge**



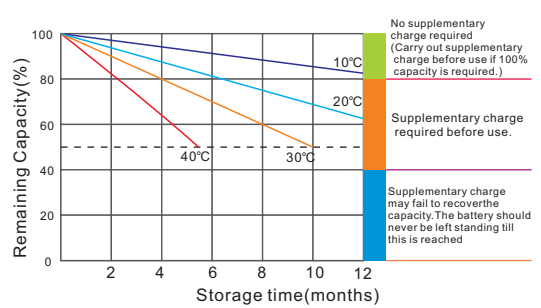
**Temperature effects on Capacity**



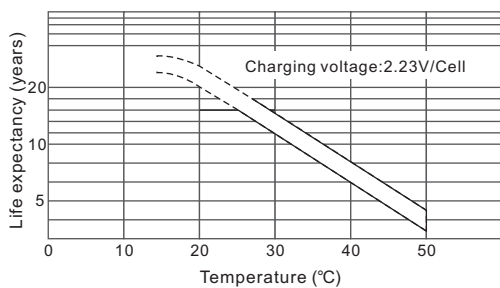
**Relationship between charging voltage and temperature**



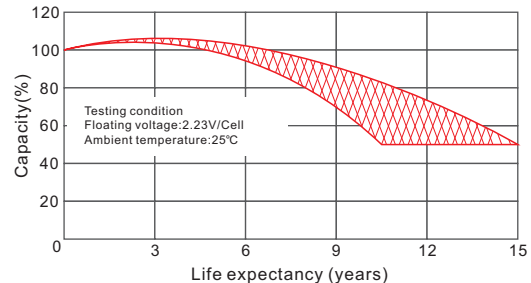
**Self-discharge Characteristics**



**Temperature effects on Float life**



**Life Characteristics of Standby use**



**Specification**

Nominal Voltage	12V
Number of cell	6
Nominal Capacity	200Ah@10hr-rate (20.0A to 1.80V/cell @25°C)
Weight	Approx.65.0Kg
Terminal	M8,Φ=18&20
Container Material	ABS (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.
Rated Capacity	205.0Ah 20hr-rate (10.25A to 1.80V/cell @25°C)
	200.0Ah 10hr-rate (20.0A to 1.80V/cell @25°C)
	167.0Ah 5hr-rate (33.4A to 1.75V/cell @25°C)
	122.0Ah 1hr-rate (122.0A to 1.60V/cell @25°C)
Max. Discharge Current	1000A(5sec)
Internal Resistance	Approx.2.6mΩ(Fully charged)
Operating Temp. Range	Discharge: -40°C~60°C
	Charge : -20°C~50°C
	Storage : -40°C~60°C
Cycle Use	Charging Current:≤40.0A
	Voltage:14.2V~14.4V
	Temperature compensation:-30mV/°C
Standby Use	Charging Current:No limit
	Voltage:13.6V~13.8V
	Temperature compensation:-20mV/°C
Self-Discharge	less than 1% at 25°C
Design Life	15 years (floating charge)



**Introduction**

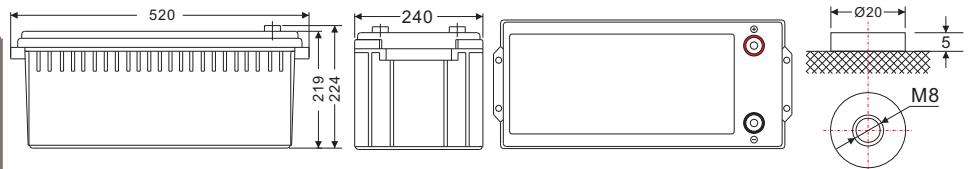
The MOTOMA GEL-TECH batteries designed with 15+ years service life. The SOLID-GEL system can avoid corrosion and stratification. The special separator can properly prevent short-circuit. It can offer high deep discharge ability, super thermal stability, good recovery-ability after deep discharging. The deep discharge cycles of GEL-TECH batteries can be more than 50% compared with other normal AGM batteries.

**Applications**

- ◆ Auto control system & ATM machine
- ◆ Electronic apparatus and equipment
- ◆ Emergency light & Emergency backup power supply & Alarm/Security system
- ◆ Power generation system (solar and wind power system, etc.)
- ◆ Communication power & DC power
- ◆ Electric Power System (EPS)
- ◆ Uninterruptable Power System (UPS)
- ◆ .....

**Dimensions**

Length	520±1mm (20.47 inches)
Width	240±1mm (9.45 inches)
Height	219±1mm (8.62 inches)
Total Height	224±1mm (8.82 inches)



Unit: mm

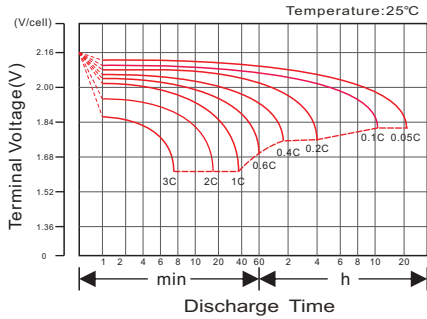
**Constant Current Discharge Characteristics: A (25°C)**

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	662.3	474.6	345.3	216.8	122.5	69.95	49.20	40.72	34.29	24.34	20.96	11.09
1.65V/cell	644.6	451.6	338.2	213.2	122.0	69.42	49.01	40.53	34.09	24.14	20.76	10.88
1.70V/cell	607.4	435.6	332.9	211.3	120.8	68.89	48.63	40.34	33.88	23.95	20.56	10.68
1.75V/cell	545.4	402.0	317.0	206.0	119.7	68.37	48.44	39.96	33.48	23.75	20.36	10.48
1.80V/cell	492.3	366.6	292.2	197.0	116.9	67.14	47.12	39.02	32.88	23.35	20.16	10.28
1.85V/cell	428.5	327.6	262.1	184.5	111.0	64.16	45.05	37.13	31.46	22.36	19.55	9.675

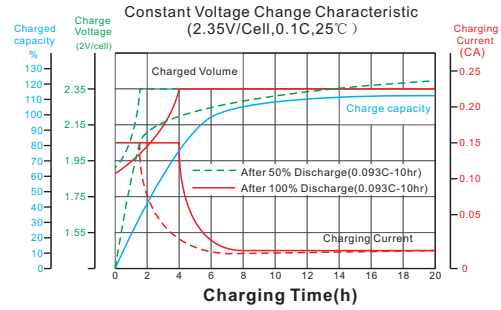
**Constant Power Discharge Characteristics: W (25°C)**

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	630.8	4613	3396	2446	1401	804.6	567.7	470.5	396.9	282.5	235.7	124.5
1.65V/cell	617.9	4406	3326	2416	1394	801.5	566.6	469.4	394.5	281.3	233.3	123.3
1.70V/cell	583.3	4259	3280	2387	1384	794.1	563.2	467.1	393.3	278.9	232.1	122.1
1.75V/cell	525.2	3935	3128	2333	1371	786.8	559.8	463.7	389.7	276.5	229.7	120.9
1.80V/cell	472.5	3573	2874	2227	1337	775.2	546.3	451.3	383.6	270.6	227.2	119.7
1.85V/cell	407.8	3173	2566	2087	1267	739.4	519.1	429.8	364.3	261.1	220.0	114.8

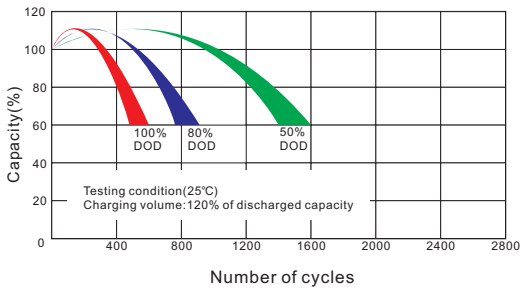
**Discharge Characteristics Curve**



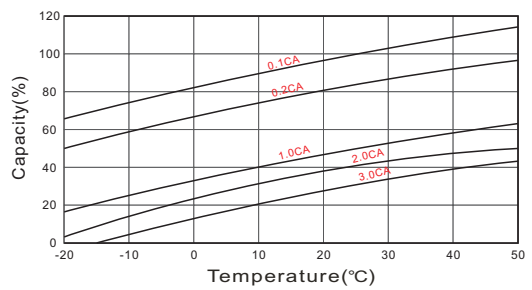
**Charging Characteristics Curve**



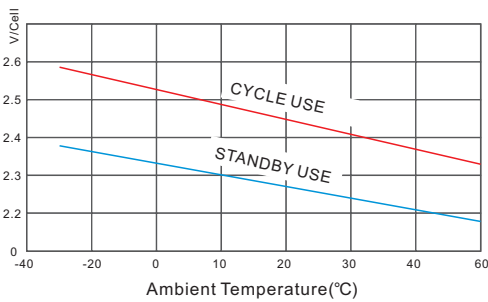
**Cycle life in relation to depth of Discharge**



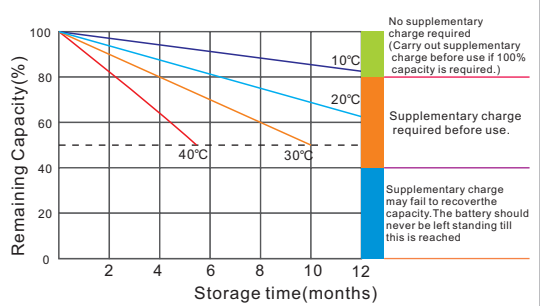
**Temperature effects on Capacity**



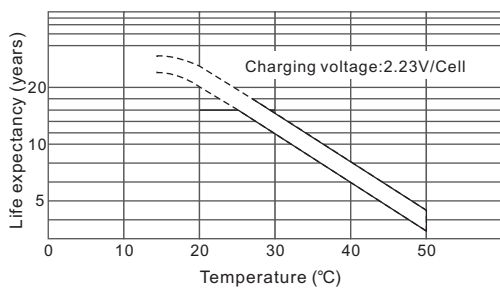
**Relationship between charging voltage and temperature**



**Self-discharge Characteristics**



**Temperature effects on Float life**



**Life Characteristics of Standby use**

