

**SLA BATTERY—DEEP CYCLE SERIES**
**Specification**

Nominal Voltage	12V
Number of cell	6
Nominal Capacity	75Ah@10hr-rate (7.5A to 1.80V/cell @25°C)
Weight	Approx.24.0Kg
Terminal	M6,Φ=16
Container Material	ABS (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.
Rated Capacity	77.3Ah 20hr-rate (3.86A to 1.80V/cell @25°C)
	75.7Ah 10hr-rate (7.57A to 1.80V/cell @25°C)
	64.8Ah 5hr-rate (12.95A to 1.75V/cell @25°C)
	48.8Ah 1hr-rate (48.75A to 1.60V/cell @25°C)
Max. Discharge Current	700A(5sec)
Internal Resistance	Approx.5.3 mΩ(Fully charged)
Operating Temp. Range	Discharge: -20°C~50°C
	Charge : -10°C~50°C
	Storage : -10°C~40°C
Cycle Use	Charging Current: ≤2.5A
	Voltage: 14.6V~14.8V
	Temperature compensation: -30mV/°C
Standby Use	Charging Current: No limit
	Voltage: 13.6V~13.8V
	Temperature compensation: -20mV/°C
Self-Discharge	less than 3% at 25°C
Design Life	12 years (floating charge)


**Introduction**

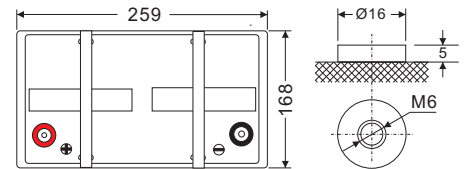
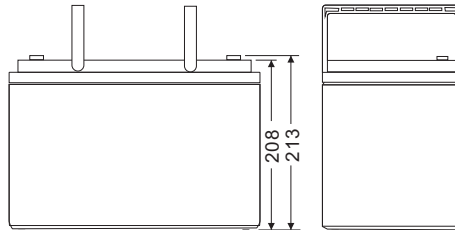
The MOTOMA deep cycle Series batteries with 12 years or more floating life which are designed for deep discharge application, it use the special chemical formula for plates, active paste material, slightly stronger electrolyte and low temperature design, which can withstand repeated deep cyclic application. The deep discharge cycles of deep cycle batteries can be more than 30% 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	259±1mm (10.20 inches)
Width	168±1mm (6.61 inches)
Height	208±1mm (8.19 inches)
Total Height	213±1mm (8.39 inches)



Unit: mm

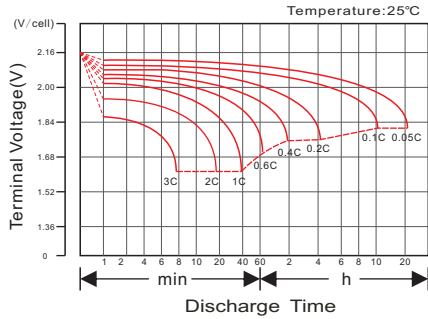
**Constant Current Discharge Characteristics: A (25°C)**

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	235.1	168.5	133.4	83.66	48.75	27.23	19.58	16.20	13.26	9.32	7.88	4.166
1.65V/cell	228.8	160.3	130.6	82.28	48.53	27.03	19.50	16.13	13.18	9.24	7.80	4.090
1.70V/cell	215.6	154.6	128.6	81.55	48.08	26.82	19.35	16.05	13.10	9.16	7.73	4.014
1.75V/cell	193.6	142.7	122.4	79.52	47.63	26.62	19.28	15.90	12.95	9.09	7.65	3.939
1.80V/cell	180.1	130.1	112.9	76.02	46.50	26.14	18.75	15.53	12.71	8.94	7.57	3.863
1.85V/cell	156.8	116.3	101.2	71.22	44.18	24.98	17.93	14.78	12.17	8.56	7.35	3.636

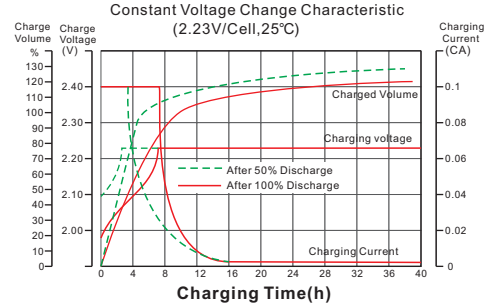
**Constant Power Discharge Characteristics: W (25°C)**

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	2239	1688	1407	925	557.6	313.3	225.9	187.2	153.5	108.1	88.6	46.79
1.65V/cell	2193	1612	1377	913	554.9	312.0	225.5	186.8	152.6	107.7	87.7	46.33
1.70V/cell	2070	1558	1359	902	550.8	309.2	224.1	185.9	152.1	106.7	87.2	45.88
1.75V/cell	1864	1440	1295	882	545.4	306.3	222.8	184.5	150.7	105.8	86.3	45.42
1.80V/cell	1729	1307	1190	842	531.9	301.8	217.4	179.6	148.4	103.6	85.4	44.97
1.85V/cell	1492	1161	1063	789	504.0	287.9	206.6	171.0	140.9	99.9	82.7	43.15

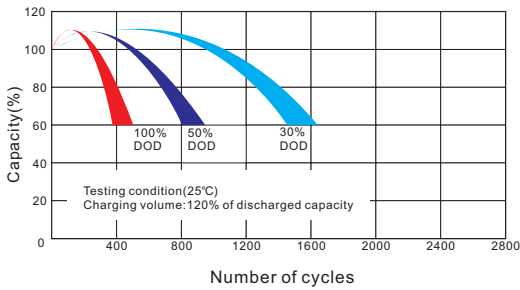
**Discharge Characteristics Curve**



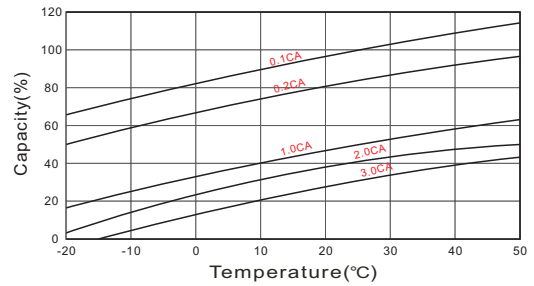
**Charging Characteristics Curve**



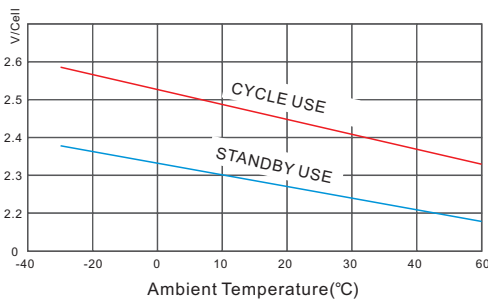
**Cycle life in relation to depth of Discharge**



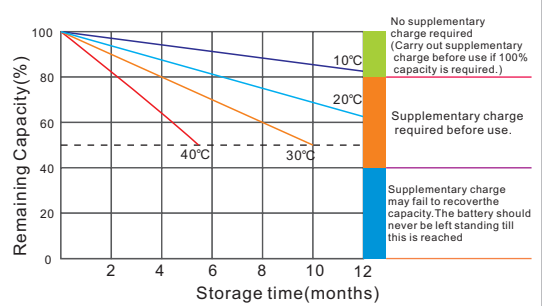
**Temperature effects on Capacity**



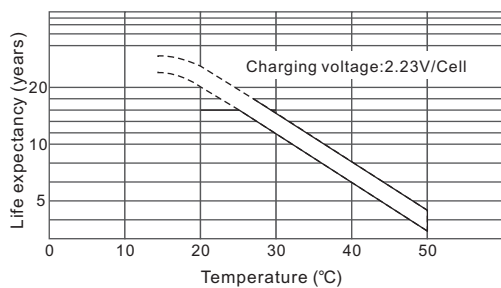
**Relationship between charging voltage and temperature**



**Self-discharge Characteristics**



**Temperature effects on Float life**



**Life Characteristics of Standby use**

