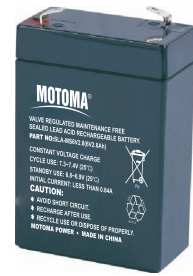


**SLA BATTERY—STANDARD SERIES**

**Specification**

Nominal Voltage	6V
Number of cell	3
Nominal Capacity	2.8Ah@20hr-rate (0.14A to 1.80V/cell @25°C)
Weight	Approx.580g
Terminal	F1
Container Material	ABS (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.
Rated Capacity	2.80Ah 20hr-rate (0.14A to 1.80V/cell @25°C)
	2.72Ah 10hr-rate (0.272A to 1.80V/cell @25°C)
	2.45Ah 5hr-rate (0.49A to 1.75V/cell @25°C)
	1.99Ah 1hr-rate (1.99A to 1.60V/cell @25°C)
Max. Discharge Current	42A(5sec)
Internal Resistance	Approx.30mΩ(Fully charged)
Operating Temp. Range	Discharge: -20°C~50°C
	Charge : -10°C~50°C
	Storage : -20°C~40°C
Cycle Use	Charging Current: ≤0.84A
	Voltage: 7.3V~7.4V
	Temperature compensation: -30mV/°C
Standby Use	Charging Current: No limit
	Voltage: 6.8V~6.9V
	Temperature compensation: -20mV/°C
Self-Discharge	less than 3% at 25°C
Design Life	6 years (floating charge)



**Introduction**

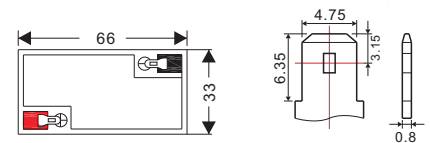
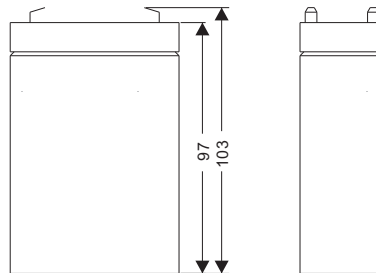
The MOTOMA standard series batteries designed with 6 years or more service life for general purpose, which designed with advanced technology, super heavy duty grid, high performance plates and electrolyte. The standard series batteries have long and reliable standby life and high consistency for better performance in series usage.

**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	66±1mm (2.60 inches)
Width	33±1mm (1.30 inches)
Height	97±1mm (3.82 inches)
Total Height	103±1mm (4.06 inches)



Unit: mm

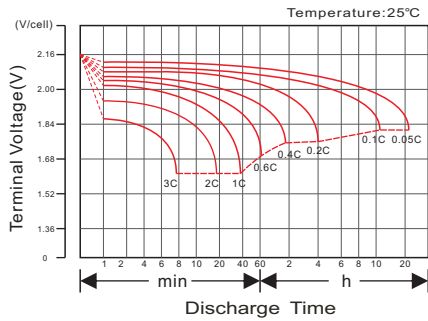
**Constant Current Discharge Characteristics: A (25°C)**

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	11.337	7.577	5.826	3.367	1.992	1.038	0.735	0.603	0.500	0.331	0.287	0.161
1.65V/cell	10.927	7.282	5.639	3.315	1.980	1.031	0.732	0.600	0.497	0.330	0.284	0.155
1.70V/cell	10.336	7.057	5.510	3.289	1.966	1.028	0.729	0.597	0.494	0.329	0.281	0.152
1.75V/cell	9.338	6.604	5.223	3.214	1.937	1.016	0.726	0.594	0.491	0.327	0.278	0.146
1.80V/cell	8.339	6.154	4.933	3.137	1.909	0.998	0.720	0.591	0.488	0.326	0.272	0.141
1.85V/cell	7.349	5.701	4.646	3.059	1.883	0.983	0.715	0.588	0.485	0.325	0.269	0.138

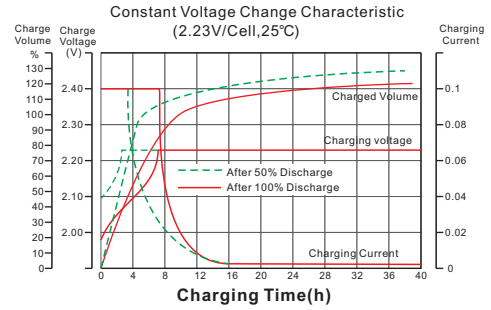
**Constant Power Discharge Characteristics: W (25°C)**

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	123.984	80.590	65.488	40.398	23.884	12.443	8.799	7.198	7.041	3.984	3.391	1.896
1.65V/cell	120.755	80.504	64.548	39.744	23.815	12.368	8.782	7.181	6.988	3.952	3.357	1.826
1.70V/cell	118.340	78.088	63.066	39.485	23.764	12.339	8.765	7.181	6.970	3.947	3.322	1.791
1.75V/cell	106.941	74.868	59.782	38.538	23.368	12.144	8.713	7.129	6.953	3.936	3.287	1.722
1.80V/cell	95.525	70.038	56.481	37.626	22.971	11.979	8.644	7.077	6.935	3.920	3.235	1.670
1.85V/cell	84.126	65.208	53.197	36.713	22.575	11.799	8.576	7.026	6.917	3.920	3.183	1.617

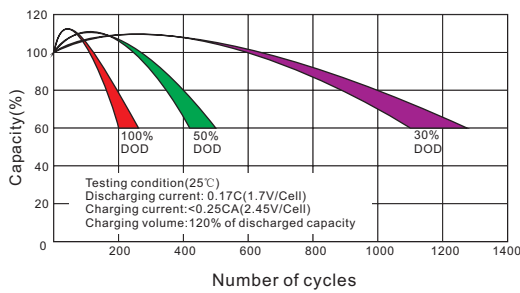
**Discharge Characteristics Curve**



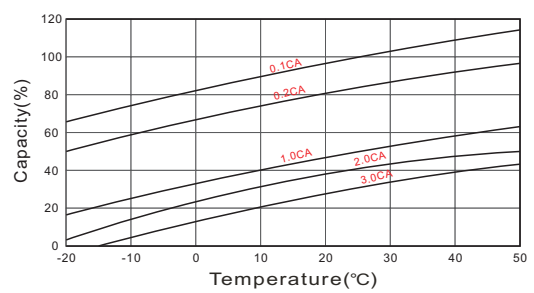
**Charging Characteristics Curve**



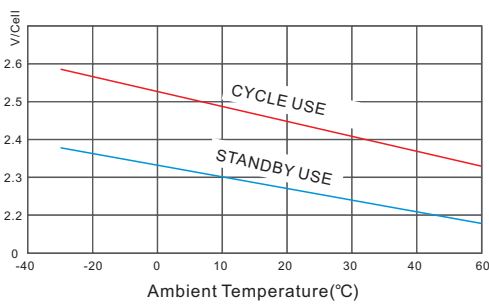
**Cycle life in relation to depth of Discharge**



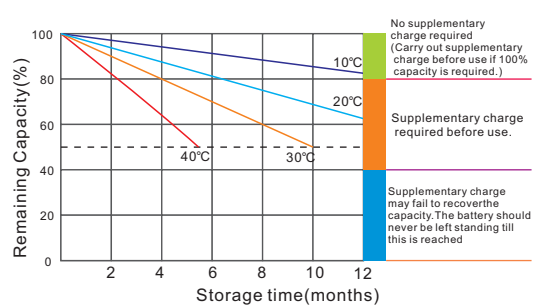
**Temperature effects on Capacity**



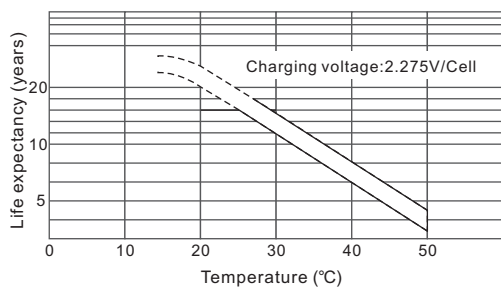
**Relationship between charging voltage and temperature**



**Self-discharge Characteristics**



**Temperature effects on Float life**



**Life Characteristics of Standby use**

