

**SLA BATTERY—STANDARD SERIES**
**Specification**

Nominal Voltage	12V
Number of cell	6
Nominal Capacity	40Ah@10hr-rate (4.0A to 1.80V/cell @25°C)
Weight	Approx. 13.5Kg
Terminal	M6, Ø=14
Container Material	ABS (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.
Rated Capacity	41.4Ah 20hr-rate (2.07A to 1.80V/cell @25°C) 40.0Ah 10hr-rate (4.0A to 1.80V/cell @25°C) 34.6Ah 5hr-rate (6.92A to 1.75V/cell @25°C) 26.0Ah 1hr-rate (26.0A to 1.60V/cell @25°C)
Max. Discharge Current	400A(5sec)
Internal Resistance	Approx. 9.0mΩ(Fully charged)
Operating Temp. Range	Discharge: -20°C~50°C Charge : -10°C~50°C Storage : -20°C~40°C
Cycle Use	Charging Current: ≤12.0A 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**

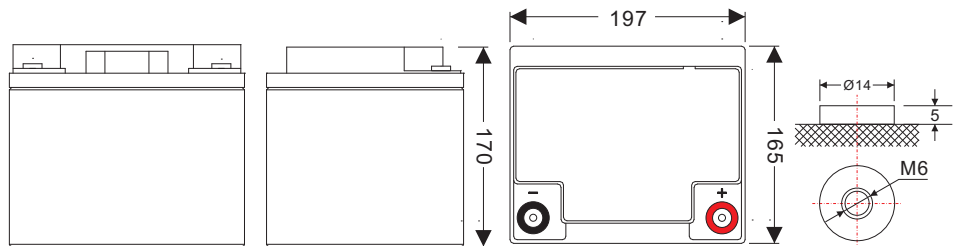
The MOTOMA standard series batteries designed with 12 years or more service life for general purpose, which designed with advanced technology, super heavy duty grid, high performance plates and electrolyte. The standard series batteries have long and reliable standby life and high consistency for better 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	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

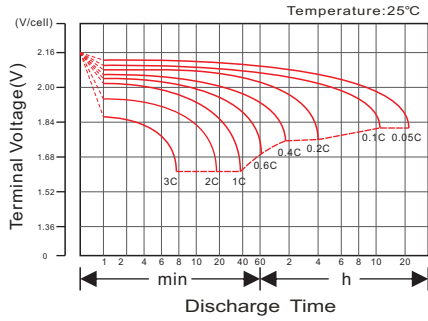
**Constant Current Discharge Characteristics: A (25°C)**

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	126.4	93.08	71.49	46.23	26.13	15.33	10.49	8.683	7.107	4.994	4.222	2.233
1.65V/cell	122.8	88.57	70.03	45.47	26.01	15.21	10.45	8.643	7.066	4.953	4.182	2.192
1.70V/cell	119.1	85.44	68.93	45.06	25.77	15.10	10.37	8.603	7.024	4.912	4.141	2.152
1.75V/cell	107.0	78.84	65.63	43.94	25.53	14.98	10.33	8.522	6.940	4.872	4.100	2.111
1.80V/cell	96.56	71.90	60.49	42.01	24.92	14.71	10.05	8.321	6.815	4.791	4.060	2.070
1.85V/cell	84.05	64.26	54.26	39.36	23.68	14.06	9.608	7.919	6.522	4.588	3.938	1.949

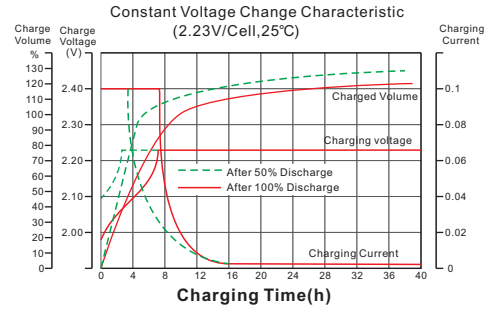
**Constant Power Discharge Characteristics: W (25°C)**

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	1233	920.6	769.3	495.6	298.8	176.3	121.1	100.3	82.28	57.95	47.48	25.08
1.65V/cell	1200	879.2	753.3	489.4	297.4	175.6	120.8	100.1	81.78	57.70	46.99	24.83
1.70V/cell	1164	850.0	743.1	483.7	295.2	174.0	120.1	99.62	81.53	57.21	46.75	24.59
1.75V/cell	1048	785.4	708.6	472.7	292.3	172.4	119.4	98.89	80.77	56.73	46.26	24.35
1.80V/cell	942.9	713.1	651.0	451.2	285.1	169.9	116.5	96.24	79.52	55.51	45.77	24.10
1.85V/cell	813.9	633.3	581.3	422.8	270.1	162.0	110.7	91.66	75.51	53.56	44.31	23.13

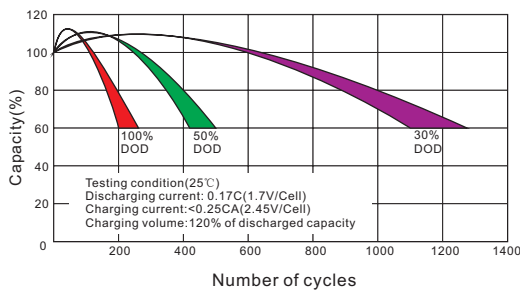
**Discharge Characteristics Curve**



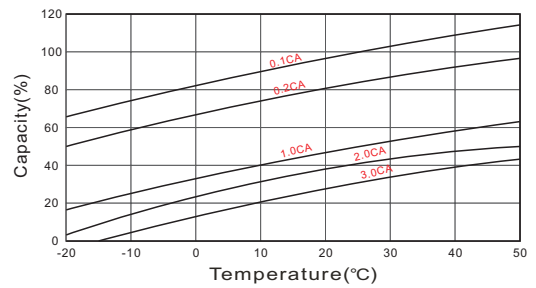
**Charging Characteristics Curve**



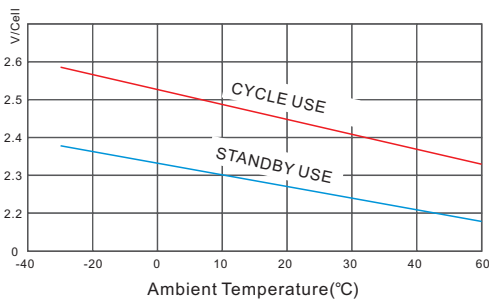
**Cycle life in relation to depth of Discharge**



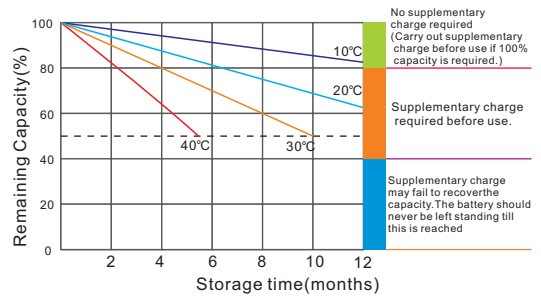
**Temperature effects on Capacity**



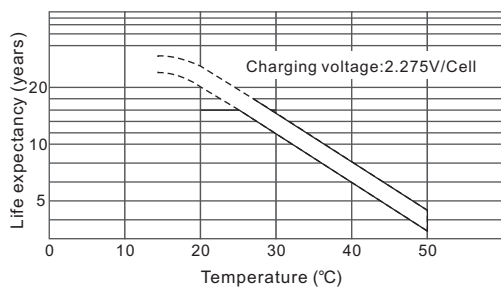
**Relationship between charging voltage and temperature**



**Self-discharge Characteristics**



**Temperature effects on Float life**



**Life Characteristics of Standby use**

