

SLA BATTERY—STANDARD SERIES

▶ Specification

Nominal Voltage	6V
Number of cell	3
Nominal Capacity	7.0Ah@20hr-rate (0.35A to 1.80V/cell @25°C)
Weight	Approx. 1200g
Terminal	F1
Container Material	ABS (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.
Rated Capacity	7.0Ah      20hr-rate (0.35A to 1.80V/cell @25°C)
	6.8Ah      10hr-rate (0.68A to 1.80V/cell @25°C)
	6.10Ah     5hr-rate (1.22A to 1.75V/cell @25°C)
	4.97Ah     1hr-rate (4.97A to 1.60V/cell @25°C)
Max. Discharge Current	105A(5sec)
Internal Resistance	Approx 15mΩ(Fully charged)
Operating Temp. Range	Discharge: -20°C~50°C
	Charge    : -10°C~50°C
	Storage   : -20°C~40°C
Cycle Use	Charging Current: ≤2.1A
	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

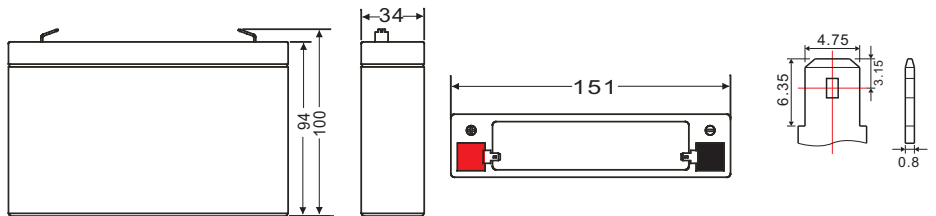
The MOTOMA standard series batteries designed with 6 years or more service life for general purpose, which designed with advanced technology, super heavy duty grid, high performance plates and electrolyte. The standard series batteries have long and reliable standby life and high consistency for better 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	151±1mm (5.94 inches)
Width	34±1mm (1.34 inches)
Height	94±1mm (3.70 inches)
Total Height	100±1mm (3.94 inches)



Unit: mm

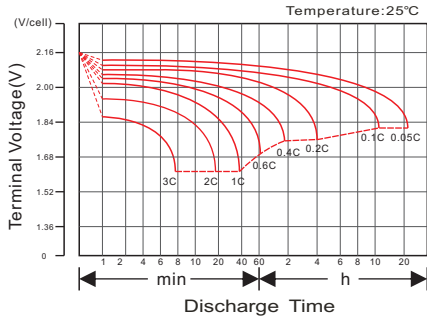
Constant Current Discharge Characteristics: A (25°C)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	28.34	18.94	14.57	8.416	4.979	2.595	1.837	1.507	1.249	0.828	0.717	0.403
1.65V/cell	27.32	18.20	14.10	8.287	4.951	2.577	1.830	1.500	1.242	0.825	0.710	0.388
1.70V/cell	25.84	17.64	13.77	8.223	4.915	2.571	1.822	1.492	1.234	0.822	0.703	0.381
1.75V/cell	23.34	16.51	13.06	8.036	4.843	2.539	1.815	1.485	1.227	0.819	0.695	0.366
1.80V/cell	20.85	15.38	12.33	7.842	4.771	2.496	1.801	1.478	1.219	0.815	0.681	0.351
1.85V/cell	18.37	14.25	11.62	7.649	4.707	2.458	1.787	1.471	1.212	0.812	0.673	0.344

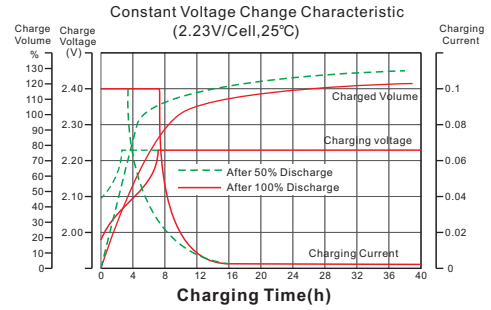
Constant Power Discharge Characteristics: W (25°C)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	155.0	100.7	81.86	50.50	29.86	15.55	11.00	8.997	8.802	4.980	4.239	2.370
1.65V/cell	150.9	100.6	80.68	49.68	29.77	15.46	10.98	8.976	8.735	4.940	4.196	2.283
1.70V/cell	147.9	97.6	78.83	49.36	29.70	15.42	10.96	8.976	8.713	4.934	4.152	2.239
1.75V/cell	133.7	93.6	74.73	48.17	29.21	15.18	10.89	8.911	8.691	4.920	4.109	2.152
1.80V/cell	119.4	87.55	70.60	47.03	28.71	14.97	10.81	8.847	8.669	4.900	4.044	2.087
1.85V/cell	105.2	81.51	66.50	45.89	28.22	14.75	10.72	8.782	8.647	4.900	3.978	2.022

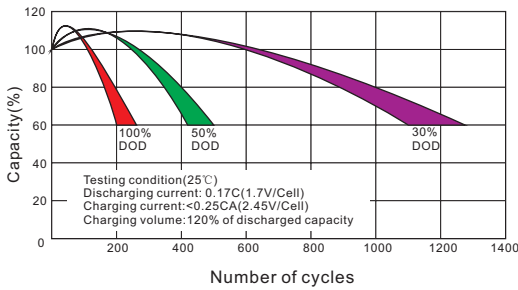
**Discharge Characteristics Curve**



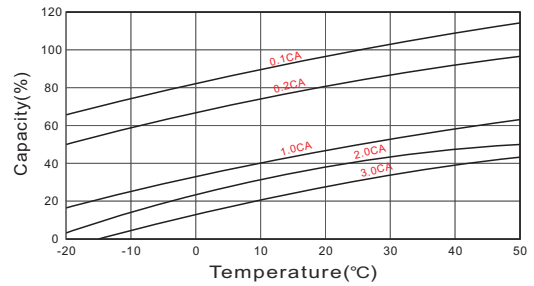
**Charging Characteristics Curve**



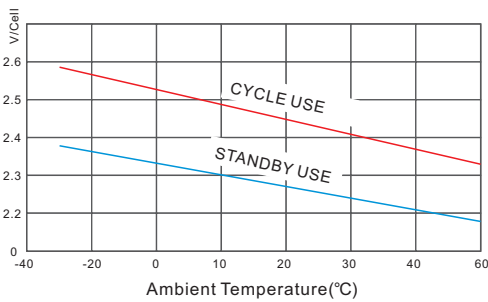
**Cycle life in relation to depth of Discharge**



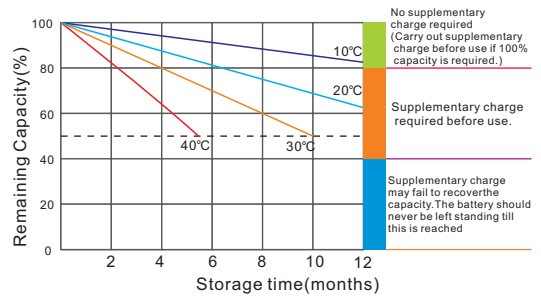
**Temperature effects on Capacity**



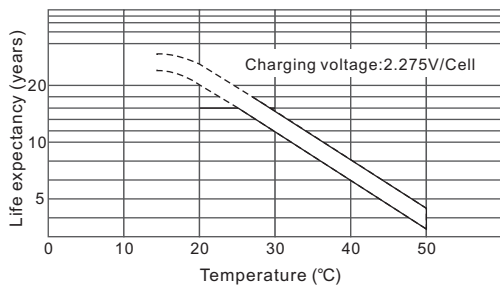
**Relationship between charging voltage and temperature**



**Self-discharge Characteristics**



**Temperature effects on Float life**



**Life Characteristics of Standby use**

