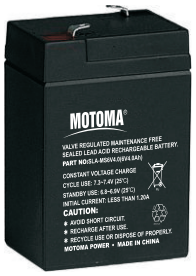
MOTOMA®
Power into the Future

VRLA BATTERY | **MS6V4.0** | **6V4.0Ah**

SLA BATTERY—STANDARD SERIES

Specification

Nominal Voltage	6V
Number of cell	3
Nominal Capacity	4.0Ah@20hr-rate (0.2A to 1.80V/cell @25℃)
Weight	Approx.710g
Terminal	F1
Container Material	ABS (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.
Rated Capacity	4.0Ah 20hr-rate (0.20A to 1.80V/cell @25℃) 3.8Ah 10hr-rate (0.38A to 1.80V/cell @25℃) 3.50Ah 5hr-rate (0.70A to 1.75V/cell @25℃) 2.84Ah 1hr-rate (2.84A to 1.60V/cell @25℃)
Max. Discharge Current	60A(5sec)
Internal Resistance	Approx45mΩ(Fully charged)
Operating Temp. Range	Discharge: -20℃~50℃ Charge : -10℃~50℃ Storage : -20℃~40℃
Cycle Use	Charging Current:⩽1. 2A Voltage:7.3V~7.4V Temperature compensation:-30mV/℃
Standby Use	Charging Current:No limit Voltage:6.8V~6.9V Temperature compensation:-20mV/℃
Self-Discharge	less than 3% at 25℃
Design Life	6 years (floating charge)



Introduction

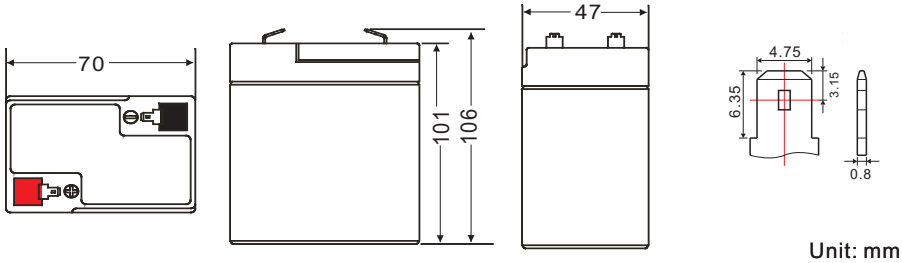
The MOTOMA standard series batteries designed with 6 years or more service life for general purpose, which designed with advanced technology, super heavy duty grid, high performance plates and electrolyte.The standard series batteries have long and reliable standby life and high consistency for better 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	70±1mm (2.75 inches)
Width	47±1mm (1.85 inches)
Heigth	101±1mm (3.97 inches)
Total Heigth	106±1mm (4.17 inches)



Unit: mm

Constant Current Discharge Characteristics: A (25℃)

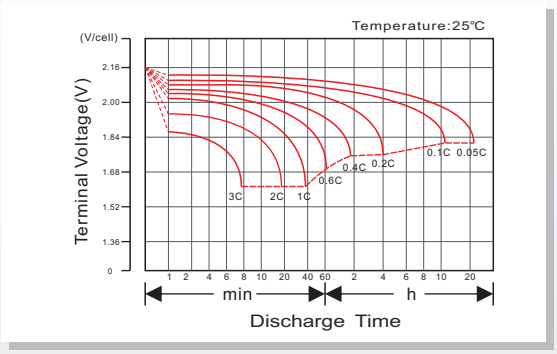
F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	16.20	10.82	8.323	4.809	2.845	1.483	1.050	0.861	0.714	0.473	0.410	0.230
1.65V/cell	15.61	10.40	8.056	4.736	2.829	1.472	1.046	0.857	0.709	0.472	0.406	0.222
1.70V/cell	14.77	10.08	7.871	4.699	2.809	1.469	1.041	0.853	0.705	0.470	0.401	0.217
1.75V/cell	13.34	9.434	7.461	4.592	2.768	1.451	1.037	0.849	0.701	0.468	0.397	0.209
1.80V/cell	11.91	8.791	7.048	4.481	2.727	1.426	1.029	0.845	0.697	0.466	0.389	0.201
1.85V/cell	10.50	8.144	6.638	4.371	2.690	1.405	1.021	0.841	0.693	0.464	0.385	0.197

Constant Power Discharge Characteristics: W (25℃)

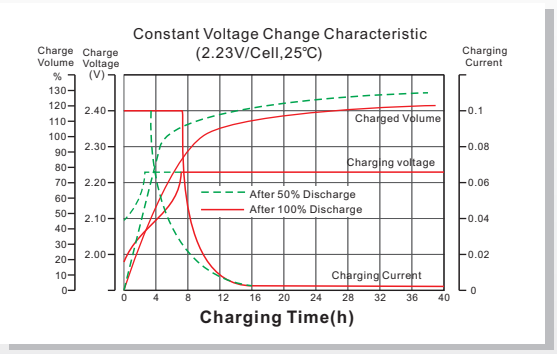
F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	88.56	57.56	46.78	28.86	17.060	8.888	6.285	5.141	5.030	2.846	2.422	1.354
1.65V/cell	86.25	57.50	46.11	28.39	17.011	8.835	6.273	5.129	4.992	2.823	2.398	1.304
1.70V/cell	84.53	55.78	45.05	28.20	16.974	8.813	6.261	5.129	4.979	2.819	2.373	1.280
1.75V/cell	76.39	53.48	42.70	27.53	16.691	8.674	6.224	5.092	4.966	2.812	2.348	1.230
1.80V/cell	68.23	50.03	40.34	26.88	16.408	8.557	6.175	5.055	4.954	2.800	2.311	1.193
1.85V/cell	60.09	46.58	38.00	26.22	16.125	8.428	6.125	5.018	4.941	2.800	2.273	1.155

MOTOMA POWER CO.,LTD
Http: / /www.motoma.com
E-mail:info@motoma.com

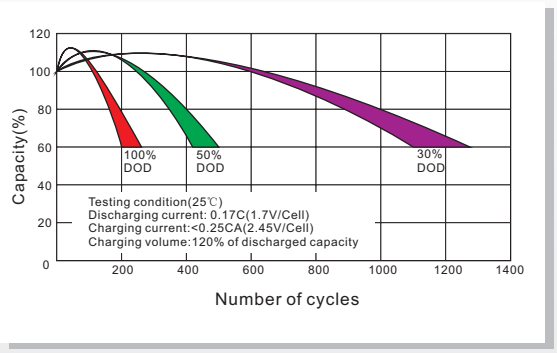
Discharge Characteristics Curve



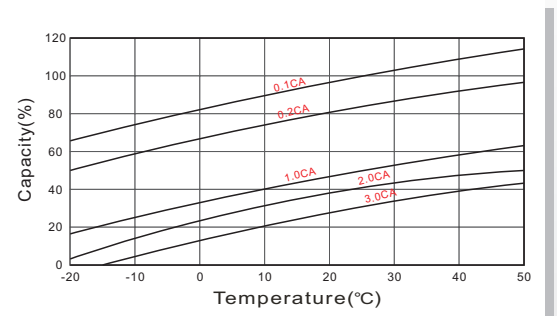
Charging Characteristics Curve



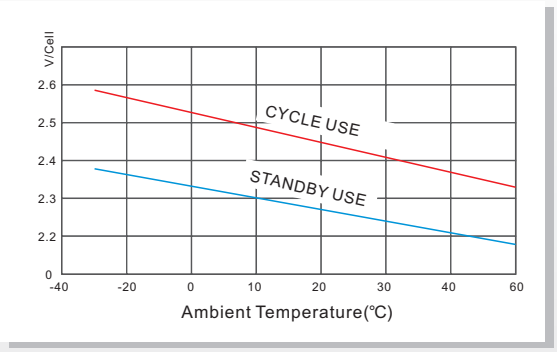
Cycle life in relation to depth of Discharge



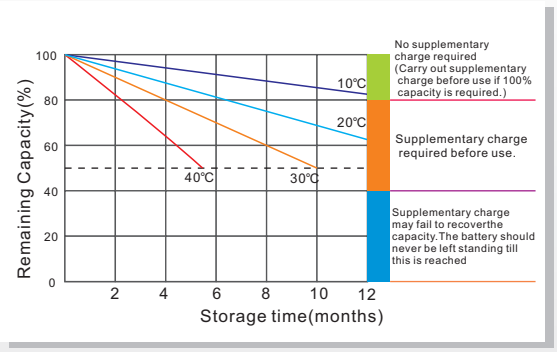
Temperature effects on Capacity



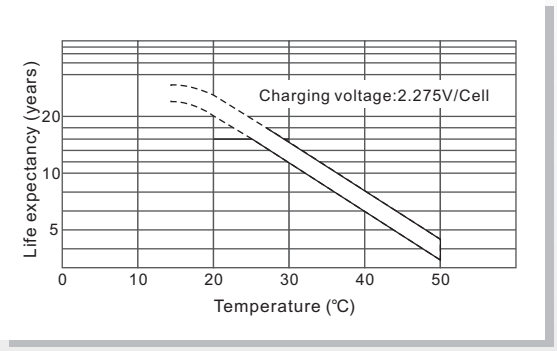
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use