MOTOMA®
Power into the Future

VRLA BATTERY | MS6V10.0 | 6V10.0Ah

SLA BATTERY—STANDARD SERIES

Specification

Nominal Voltage	6V
Number of cell	3
Nominal Capacity	10.0Ah@20hr-rate (0.50A to 1.80V/cell @25℃)
Weight	Approx.1500g
Terminal	F1/F2
Container Material	ABS (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.
Rated Capacity	10.0Ah 20hr-rate (0.50A to 1.80V/cell @25℃) 9.70Ah 10hr-rate (0.97A to 1.80V/cell @25℃) 8.75Ah 5hr-rate (1.75A to 1.75V/cell @25℃) 7.11Ah 1hr-rate (7.11A to 1.60V/cell @25℃)
Max. Discharge Current	150A(5sec)
Internal Resistance	Approx15mΩ(Fully charged)
Operating Temp. Range	Discharge: -20℃~50℃ Charge : -10℃~50℃ Storage : -20℃~40℃
Cycle Use	Charging Current:≤3A 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

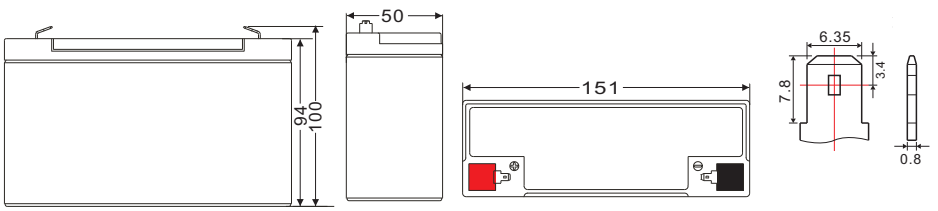
The MOTOMA standard series batteries designed with 6 years or more service life for general purpose, which designed with advanced technology, super heavy duty grid, high performance plates and electrolyte.The standard series batteries have long and reliable standby life and high consistency for better 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	151±1mm (5.94 inches)
Width	50±1mm (1.97 inches)
Heigth	94±1mm (3.70 inches)
Total Heigth	100±1mm (3.94 inches)



F2 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	40.49	27.06	20.81	12.02	7.114	3.708	2.624	2.153	1.784	1.183	1.025	0.575
1.65V/cell	39.02	26.01	20.14	11.84	7.073	3.681	2.614	2.142	1.774	1.179	1.014	0.554
1.70V/cell	36.92	25.20	19.68	11.75	7.021	3.672	2.604	2.132	1.763	1.174	1.004	0.544
1.75V/cell	33.35	23.59	18.65	11.48	6.919	3.628	2.593	2.122	1.753	1.169	0.993	0.523
1.80V/cell	29.78	21.98	17.62	11.20	6.816	3.565	2.573	2.112	1.742	1.165	0.972	0.502
1.85V/cell	26.25	20.36	16.59	10.93	6.724	3.512	2.552	2.101	1.731	1.160	0.962	0.491

Constant Power Discharge Characteristics: W (25℃)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	221.4	143.9	116.9	72.14	42.65	22.22	15.71	12.85	12.57	7.115	6.056	3.385
1.65V/cell	215.6	143.8	115.3	70.97	42.53	22.09	15.68	12.82	12.48	7.057	5.994	3.261
1.70V/cell	211.3	139.4	112.6	70.51	42.44	22.03	15.65	12.82	12.45	7.048	5.932	3.199
1.75V/cell	191.0	133.7	106.8	68.82	41.73	21.69	15.56	12.73	12.42	7.029	5.870	3.075
1.80V/cell	170.6	125.1	100.9	67.19	41.02	21.39	15.44	12.64	12.38	7.000	5.777	2.982
1.85V/cell	150.2	116.4	94.99	65.56	40.31	21.07	15.31	12.55	12.35	7.000	5.684	2.888

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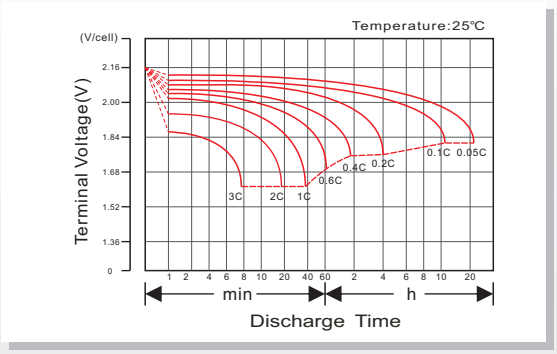
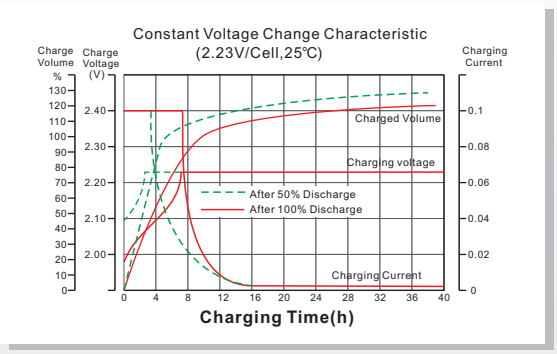
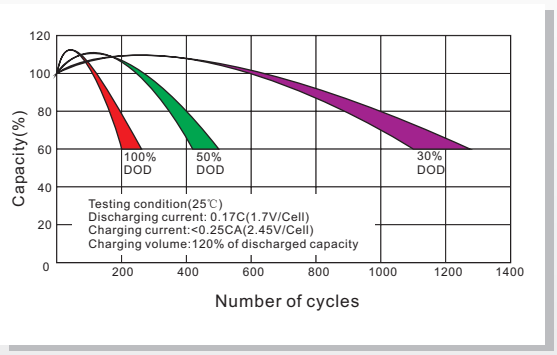
Discharge Characteristics Curve



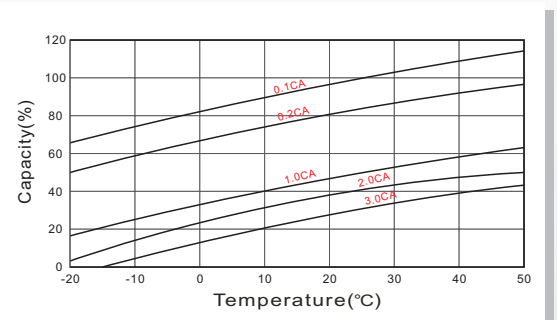
Charging Characteristics Curve



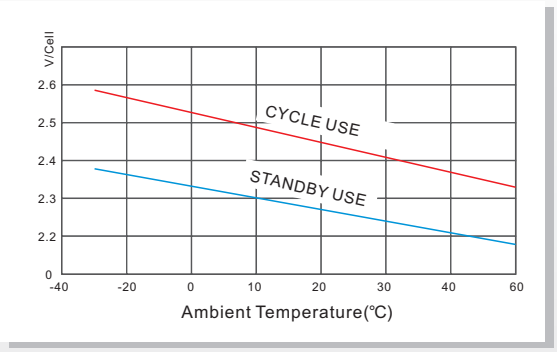
Cycle life in relation to depth of Discharge



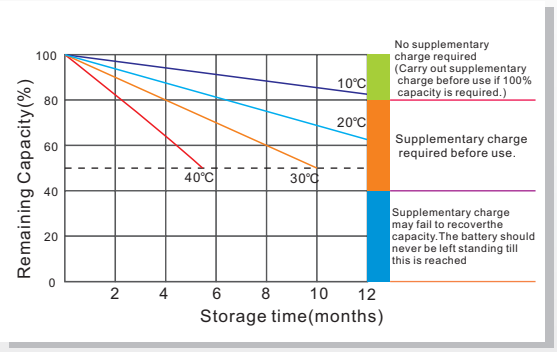
Temperature effects on Capacity



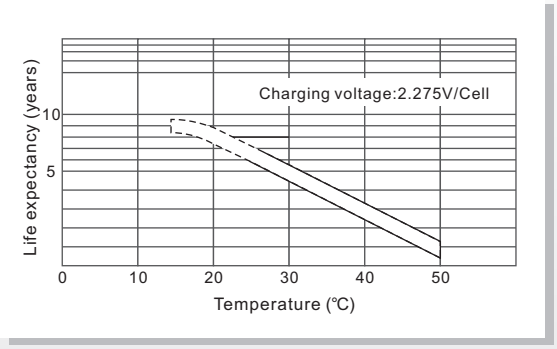
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use