MOTOMA®
Power into the Future

VRLA BATTERY | **MS12V75** | **12V75Ah**

SLA BATTERY—STANDARD SERIES

Specification

Nominal Voltage	12V
Number of cell	6
Nominal Capacity	75Ah@10hr-rate (7.5A to 1.80V/cell @25℃)
Weight	Approx.23.5Kg
Terminal	M6,Ø=14&16
Container Material	ABS (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.
Rated Capacity	77.6Ah 20hr-rate (3.88A to 1.80V/cell @25℃) 75.0Ah 10hr-rate (7.5A to 1.80V/cell @25℃) 65.0Ah 5hr-rate (13.0A to 1.75V/cell @25℃) 48.0Ah 1hr-rate (48.0A to 1.60V/cell @25℃)
Max. Discharge Current	600A(5sec)
Internal Resistance	Approx.5.2mΩ(Fully charged)
Operating Temp. Range	Discharge: -20℃~50℃ Charge : -10℃~50℃ Storage : -20℃~40℃
Cycle Use	Charging Current:≤22.5A Voltage:14.6V~14.8V Temperature compensation:-30mV/℃
Standby Use	Charging Current:No limit Voltage:13.6V~13.8V Temperature compensation:-20mV/℃
Self-Discharge	less than 3% at 25℃
Design Life	12 years (floating charge)

Introduction

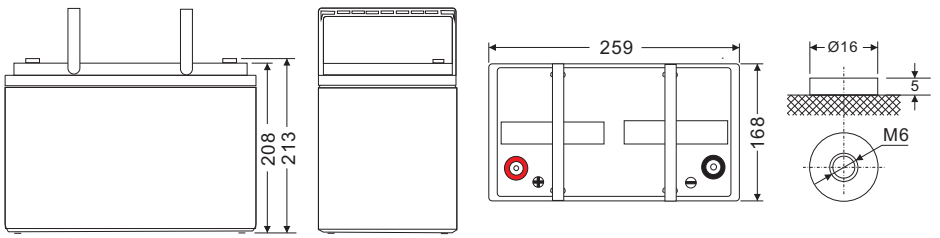
The MOTOMA standard series batteries designed with 12 years or more service life for general purpose, which designed with advanced technology, super heavy duty grid, high performance plates and electrolyte.The standard series batteries have long and reliable standby life and high consistency for better 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	259±1mm (10.20 inches)
Width	168±1mm (6.61 inches)
Heigth	208±1mm (8.19 inches)
Total Heigth	213±1mm (8.39 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	237.1	174.5	134.0	86.68	48.99	28.74	19.67	16.28	13.33	9.363	7.917	4.187
1.65V/cell	230.2	166.1	131.3	85.25	48.77	28.52	19.60	16.21	13.25	9.287	7.840	4.111
1.70V/cell	223.4	160.2	129.2	84.50	48.32	28.30	19.45	16.13	13.17	9.211	7.764	4.034
1.75V/cell	200.6	147.8	123.0	82.38	47.86	28.09	19.37	15.98	13.01	9.135	7.688	3.958
1.80V/cell	181.0	134.8	113.4	78.77	46.73	27.58	18.84	15.60	12.78	8.982	7.612	3.882
1.85V/cell	157.6	120.5	101.7	73.79	44.40	26.36	18.01	14.85	12.23	8.602	7.384	3.654

Constant Power Discharge Characteristics: W (25℃)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	2312	1726	1442	929.3	560.3	330.6	227.0	188.1	154.3	108.6	89.02	47.02
1.65V/cell	2250	1649	1412	917.7	557.6	329.3	226.6	187.7	153.3	108.2	88.10	46.56
1.70V/cell	2183	1594	1393	907.0	553.6	326.3	225.2	186.8	152.9	107.3	87.65	46.11
1.75V/cell	1965	1473	1329	886.3	548.1	323.2	223.9	185.4	151.4	106.4	86.74	45.65
1.80V/cell	1768	1337	1221	846.0	534.6	318.5	218.4	180.4	149.1	104.1	85.82	45.19
1.85V/cell	1526	1187	1090	792.7	506.5	303.8	207.6	171.9	141.6	100.4	83.08	43.37

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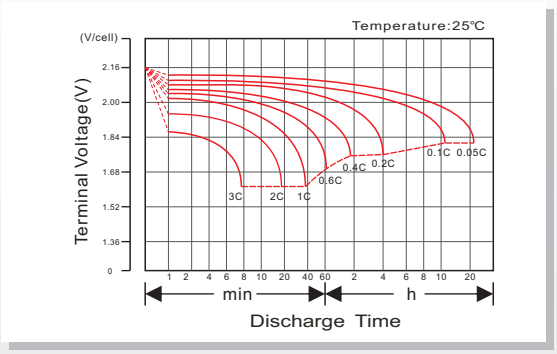
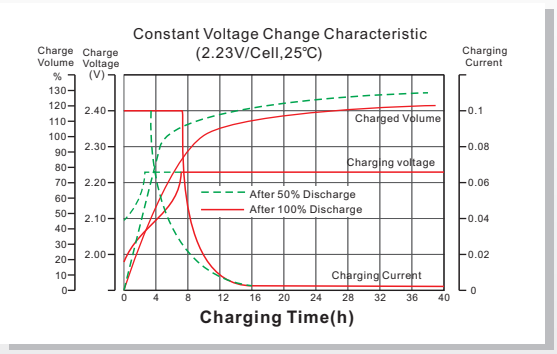
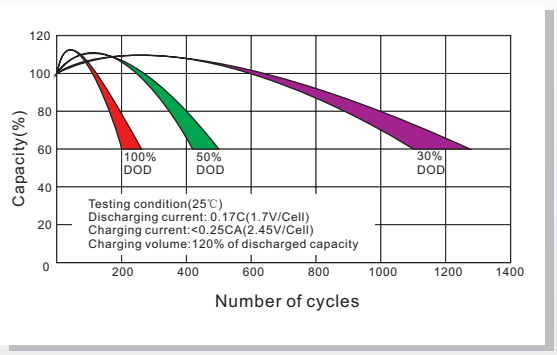
Discharge Characteristics Curve



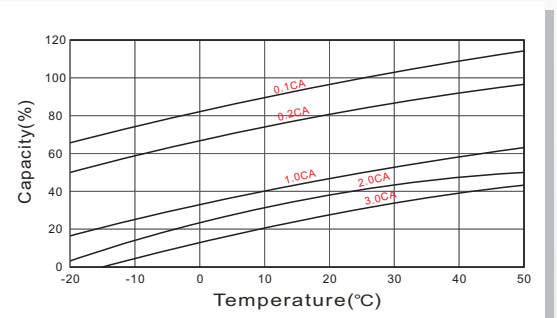
Charging Characteristics Curve



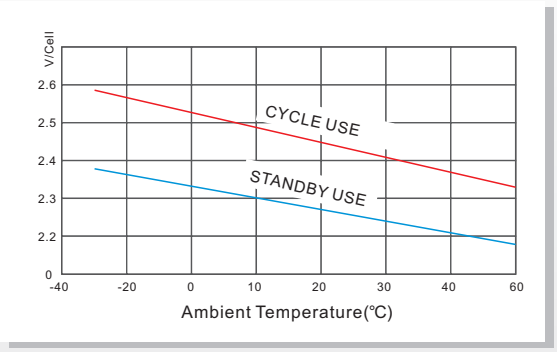
Cycle life in relation to depth of Discharge



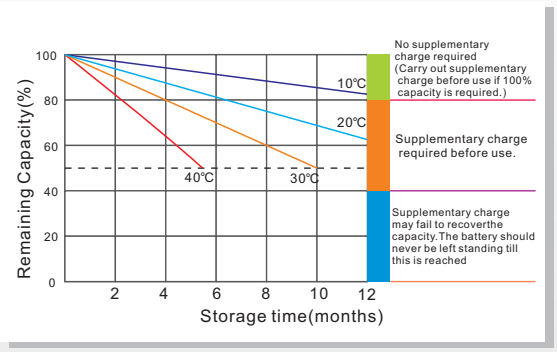
Temperature effects on Capacity



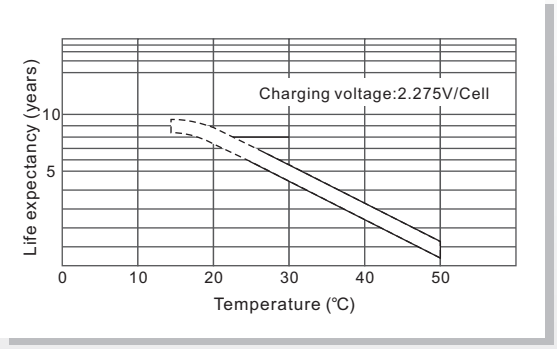
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use