

SLA BATTERY—STANDARD SERIES

Specification

Nominal Voltage	12V
Number of cell	6
Nominal Capacity	9Ah@20hr-rate (0.45A to 1.80V/cell @25°C)
Weight	Approx.2.45Kg
Terminal	F1&F2
Container Material	ABS (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.
Rated Capacity	9.00Ah 20hr-rate (0.45A to 1.80V/cell @25°C)
	8.80Ah 10hr-rate (0.88A to 1.80V/cell @25°C)
	7.90Ah 5hr-rate (1.58A to 1.75V/cell @25°C)
	6.40Ah 1hr-rate (6.40A to 1.60V/cell @25°C)
Max. Discharge Current	135A(5sec)
Internal Resistance	Approx. 17mΩ(Fully charged)
Operating Temp. Range	Discharge: -20°C~50°C
	Charge : -10°C~50°C
	Storage : -20°C~40°C
Cycle Use	Charging Current: ≤2.7A
	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	6 years (floating charge)



Introduction

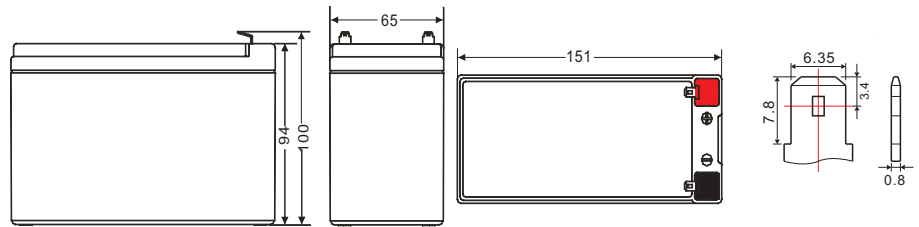
The MOTOMA standard series batteries designed with 6 years or more service life for general purpose, which designed with advanced technology, super heavy duty grid, high performance plates and electrolyte. The standard series batteries have long and reliable standby life and high consistency for better 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	65±1mm (2.56 inches)
Height	94±1mm (3.70 inches)
Total Height	100±1mm (3.93 inches)



Unit: mm

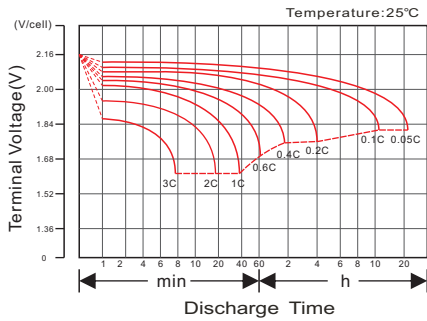
Constant Current Discharge Characteristics: A (25°C)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	36.44	24.35	18.73	10.82	6.402	3.337	2.362	1.937	1.606	1.065	0.922	0.518
1.65V/cell	35.12	23.41	18.13	10.65	6.365	3.313	2.352	1.928	1.596	1.061	0.913	0.499
1.70V/cell	33.22	22.68	17.71	10.57	6.319	3.305	2.343	1.919	1.587	1.057	0.903	0.489
1.75V/cell	30.01	21.23	16.79	10.33	6.227	3.265	2.334	1.910	1.577	1.052	0.894	0.470
1.80V/cell	26.81	19.78	15.86	10.08	6.135	3.209	2.315	1.900	1.568	1.048	0.875	0.452
1.85V/cell	23.62	18.33	14.93	9.834	6.052	3.161	2.297	1.891	1.558	1.044	0.866	0.442

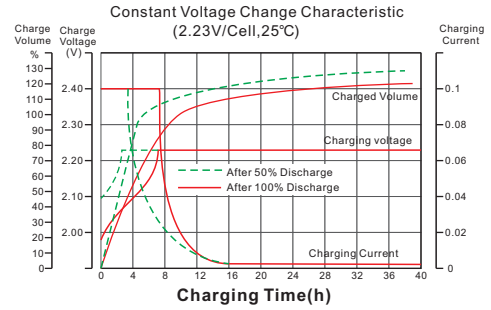
Constant Power Discharge Characteristics: W (25°C)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	398.5	259.0	210.5	129.9	76.77	40.00	28.28	23.14	22.63	12.81	10.90	6.093
1.65V/cell	388.1	258.8	207.5	127.7	76.55	39.76	28.23	23.08	22.46	12.70	10.79	5.870
1.70V/cell	380.4	251.0	202.7	126.9	76.38	39.66	28.17	23.08	22.41	12.69	10.68	5.758
1.75V/cell	343.7	240.6	192.2	123.9	75.11	39.03	28.01	22.91	22.35	12.65	10.57	5.534
1.80V/cell	307.0	225.1	181.5	120.9	73.84	38.50	27.79	22.75	22.29	12.60	10.40	5.367
1.85V/cell	270.4	209.6	171.0	118.0	72.56	37.93	27.56	22.58	22.23	12.60	10.23	5.199

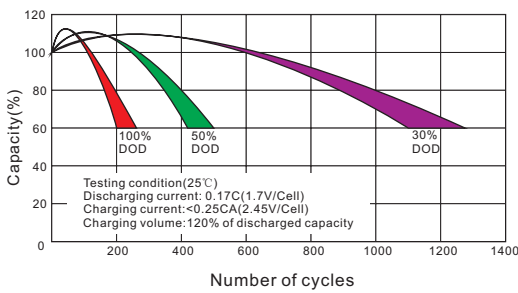
Discharge Characteristics Curve



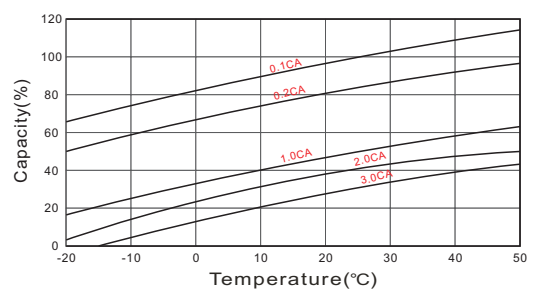
Charging Characteristics Curve



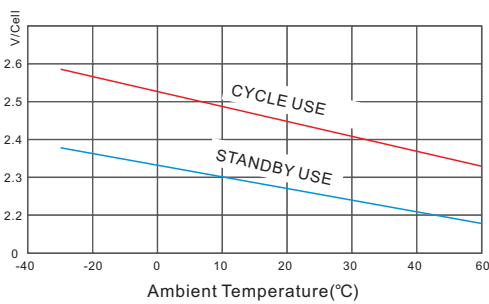
Cycle life in relation to depth of Discharge



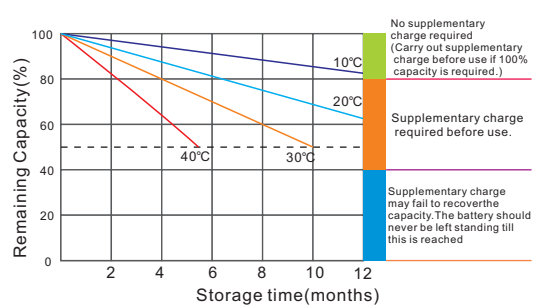
Temperature effects on Capacity



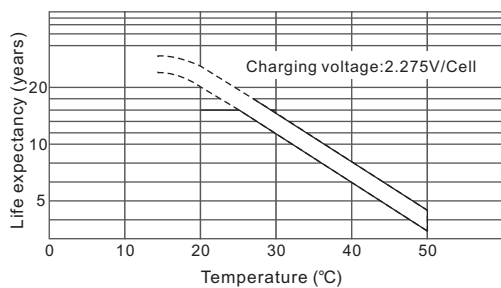
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

