

Specification

Nominal Voltage	12V
Number of cell	6
Nominal Capacity	7.5Ah@20hr-rate (0.375A to 1.80V/cell @25°C)
Weight	Approx.2.3Kg
Terminal	F1&F2
Container Material	ABS (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.
Rated Capacity	7.5Ah 20hr-rate (0.375A to 1.80V/cell @25°C)
	7.2Ah 10hr-rate (0.72A to 1.80V/cell @25°C)
	6.5Ah 5hr-rate (1.30A to 1.75V/cell @25°C)
	5.3Ah 1hr-rate (5.3A to 1.60V/cell @25°C)
Max. Discharge Current	115A(5sec)
Internal Resistance	Approx.22mΩ(Fully charged)
Operating Temp. Range	Discharge: -20°C~50°C
	Charge : -10°C~50°C
	Storage : -20°C~40°C
Cycle Use	Charging Current: ≤2.25A
	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

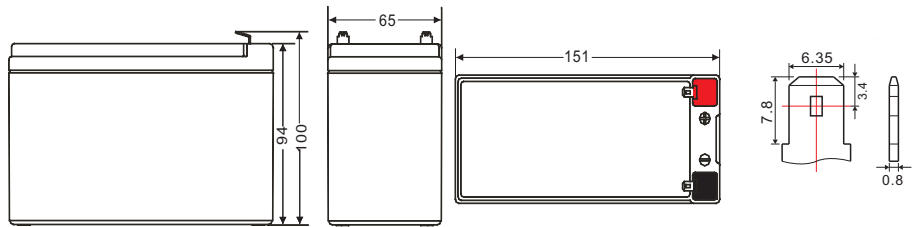
The MOTOMA standard series batteries designed with 6 years or more service life for general purpose, which designed with advanced technology, super heavy duty grid, high performance plates and electrolyte. The standard series batteries have long and reliable standby life and high consistency for better 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 (2.55 inches)
Height	94±1mm (3.70 inches)
Total Height	100±1mm (3.93 inches)



Unit: mm

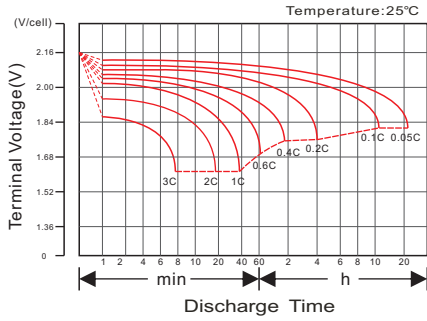
Constant Current Discharge Characteristics: A (25°C)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	30.37	20.30	15.61	9.02	5.335	2.781	1.968	1.614	1.338	0.888	0.768	0.431
1.65V/cell	29.27	19.50	15.11	8.88	5.304	2.761	1.960	1.607	1.330	0.884	0.761	0.416
1.70V/cell	27.69	18.90	14.76	8.81	5.266	2.754	1.953	1.599	1.322	0.881	0.753	0.408
1.75V/cell	25.01	17.69	13.99	8.61	5.189	2.721	1.945	1.591	1.314	0.877	0.745	0.392
1.80V/cell	22.34	16.48	13.21	8.40	5.112	2.674	1.930	1.584	1.306	0.873	0.729	0.376
1.85V/cell	19.69	15.27	12.45	8.19	5.043	2.634	1.914	1.576	1.299	0.870	0.721	0.369

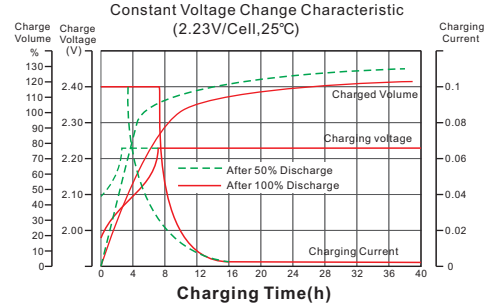
Constant Power Discharge Characteristics: W (25°C)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	332.1	215.9	175.4	108.2	63.98	33.33	23.57	19.28	18.86	10.67	9.084	5.078
1.65V/cell	323.5	215.6	172.9	106.5	63.79	33.13	23.52	19.23	18.72	10.59	8.991	4.892
1.70V/cell	317.0	209.2	168.9	105.8	63.65	33.05	23.48	19.23	18.67	10.57	8.898	4.798
1.75V/cell	286.4	200.5	160.1	103.2	62.59	32.53	23.34	19.10	18.62	10.54	8.805	4.612
1.80V/cell	255.9	187.6	151.3	100.8	61.53	32.09	23.15	18.96	18.58	10.50	8.665	4.472
1.85V/cell	225.3	174.7	142.5	98.34	60.47	31.61	22.97	18.82	18.53	10.50	8.525	4.333

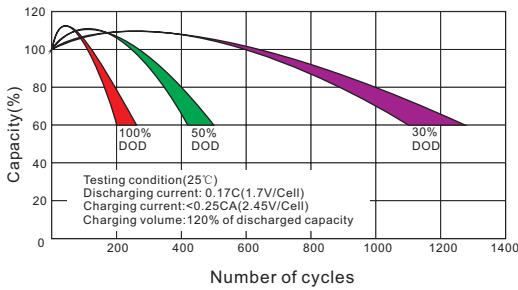
Discharge Characteristics Curve



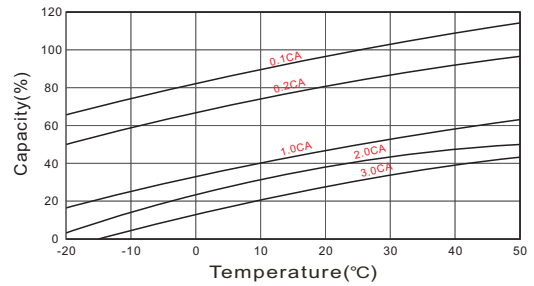
Charging Characteristics Curve



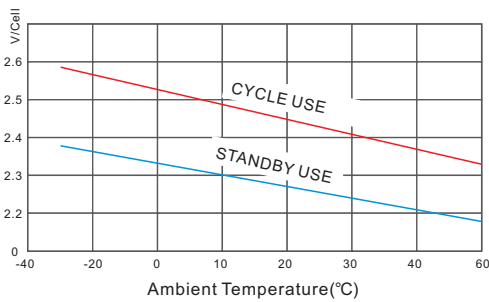
Cycle life in relation to depth of Discharge



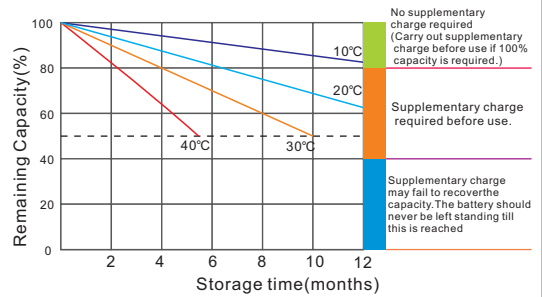
Temperature effects on Capacity



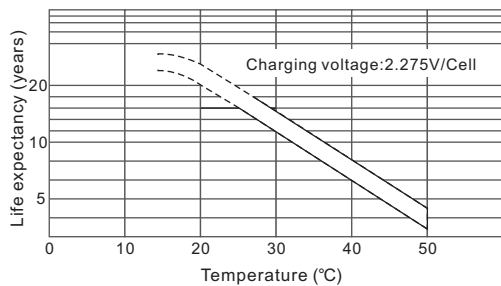
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

