

▶ **Specification**

Nominal Voltage	12V
Number of cell	6
Nominal Capacity	65Ah@10hr-rate (6.5A to 1.80V/cell @25°C)
Weight	Approx.22.0Kg
Terminal	M6,Ø=14
Container Material	ABS (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.
Rated Capacity	67.2Ah 20hr-rate (3.36A to 1.80V/cell @25°C)
	65.0Ah 10hr-rate (6.5A to 1.80V/cell @25°C)
	56.0Ah 5hr-rate (11.2A to 1.75V/cell @25°C)
	42.0Ah 1hr-rate (42.0A to 1.60V/cell @25°C)
Max. Discharge Current	480A(5sec)
Internal Resistance	Approx.6.0mΩ(Fully charged)
Operating Temp. Range	Discharge: -20°C~50°C
	Charge : -10°C~50°C
	Storage : -20°C~40°C
Cycle Use	Charging Current: ≤19.5A
	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	12 years (floating charge)



▶ **Introduction**

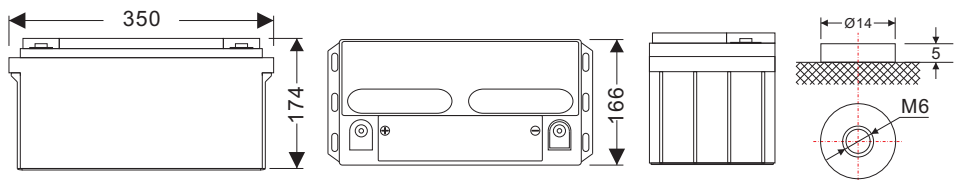
The MOTOMA standard series batteries designed with 12 years or more service life for general purpose, which designed with advanced technology, super heavy duty grid, high performance plates and electrolyte. The standard series batteries have long and reliable standby life and high consistency for better 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	350±1mm (13.78 inches)
Width	166±1mm (6.53 inches)
Height	174±1mm (6.85 inches)
Total Height	174±1mm (6.85 inches)



Unit: mm

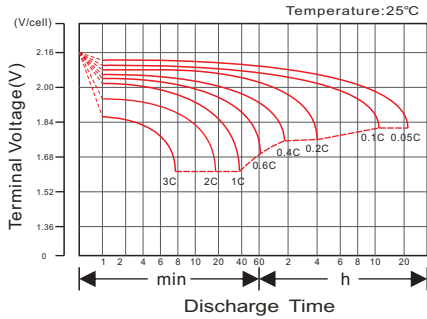
Constant Current Discharge Characteristics: A (25°C)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	205.4	151.3	116.17	75.12	42.46	24.90	17.05	14.11	11.55	8.115	6.861	3.628
1.65V/cell	199.5	143.9	113.8	73.88	42.27	24.72	16.98	14.04	11.48	8.049	6.795	3.562
1.70V/cell	193.6	138.8	112.0	73.23	41.87	24.53	16.85	13.98	11.41	7.983	6.729	3.497
1.75V/cell	173.8	128.1	106.6	71.40	41.48	24.34	16.79	13.85	11.28	7.917	6.663	3.431
1.80V/cell	156.9	116.8	98.30	68.26	40.50	23.91	16.33	13.52	11.07	7.785	6.597	3.365
1.85V/cell	136.6	104.4	88.17	63.95	38.48	22.85	15.61	12.87	10.60	7.455	6.399	3.167

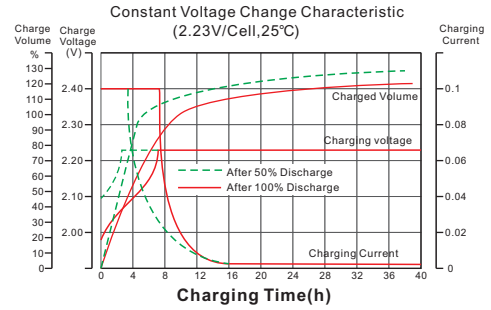
Constant Power Discharge Characteristics: W (25°C)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	200.4	1496	1250	805.4	485.6	286.5	196.8	163.1	133.7	94.16	77.15	40.75
1.65V/cell	195.0	1429	1224	795.3	483.3	285.4	196.4	162.7	132.9	93.77	76.36	40.35
1.70V/cell	189.2	1381	1208	786.0	479.7	282.8	195.2	161.9	132.5	92.97	75.96	39.96
1.75V/cell	170.3	1276	1151	768.2	475.0	280.1	194.0	160.7	131.3	92.18	75.17	39.56
1.80V/cell	153.2	1159	1058	733.2	463.3	276.0	189.3	156.4	129.2	90.20	74.38	39.17
1.85V/cell	132.3	1029	944.7	687.0	439.0	263.3	179.9	148.9	122.7	87.04	72.01	37.59

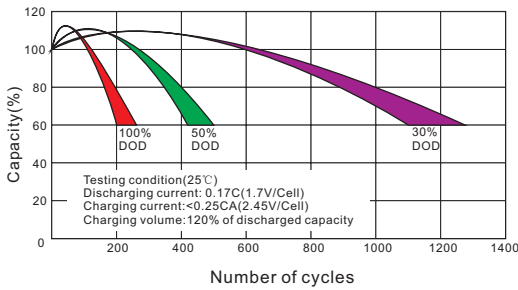
Discharge Characteristics Curve



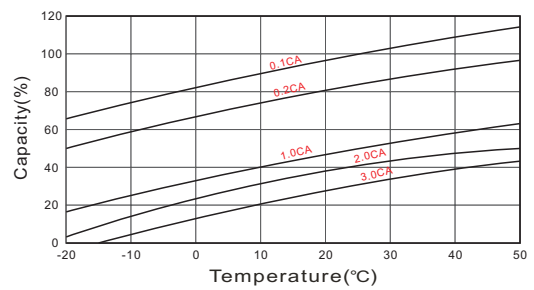
Charging Characteristics Curve



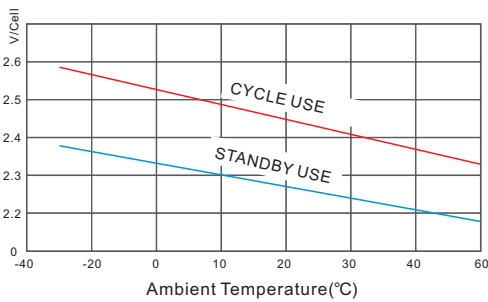
Cycle life in relation to depth of Discharge



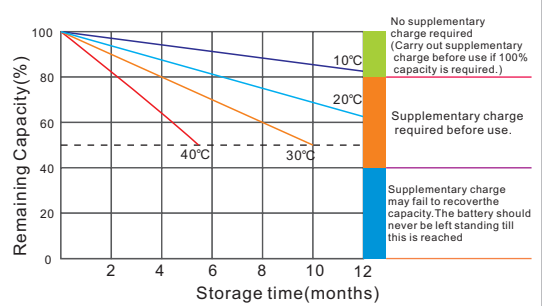
Temperature effects on Capacity



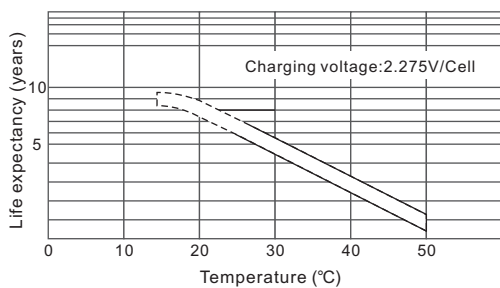
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

