

Specification

Nominal Voltage	12V
Number of cell	6
Nominal Capacity	200Ah@10hr-rate (20.0A to 1.80V/cell @25°C)
Weight	Approx.60.0Kg
Terminal	M8,Φ=16&20
Container Material	ABS (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.
Rated Capacity	207.0Ah 20hr-rate (10.35A to 1.80V/cell @25°C)
	200.0Ah 10hr-rate (20.0A to 1.80V/cell @25°C)
	173.0Ah 5hr-rate (34.6A to 1.75V/cell @25°C)
	130.0Ah 1hr-rate (130.0A to 1.60V/cell @25°C)
Max. Discharge Current	1000A(5sec)
Internal Resistance	Approx.2.5mΩ(Fully charged)
Operating Temp. Range	Discharge: -20°C~50°C
	Charge : -10°C~50°C
	Storage : -20°C~40°C
Cycle Use	Charging Current:≤60.0A
	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

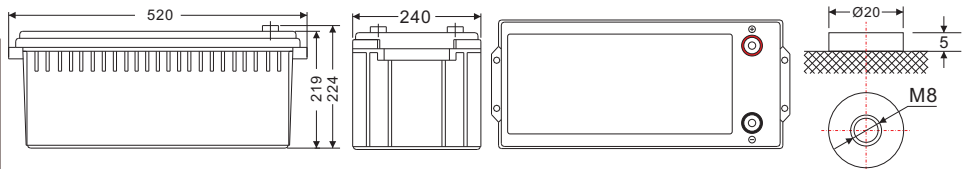
The MOTOMA standard series batteries designed with 12 years or more service life for general purpose, which designed with advanced technology, super heavy duty grid, high performance plates and electrolyte. The standard series batteries have long and reliable standby life and high consistency for better 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	520±1mm (20.47 inches)
Width	240±1mm (9.45 inches)
Height	219±1mm (8.62 inches)
Total Height	224±1mm (8.82 inches)



Unit: mm

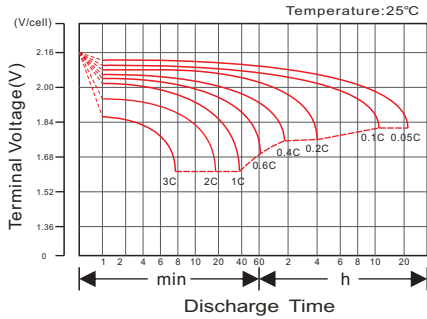
Constant Current Discharge Characteristics: A (25°C)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	630.0	451.5	357.5	224.2	130.7	72.98	52.46	43.42	35.54	24.97	21.11	11.16
1.65V/cell	613.2	429.6	350.1	220.5	130.0	72.43	52.26	43.22	35.33	24.76	20.91	10.96
1.70V/cell	577.8	414.4	344.6	218.6	128.8	71.88	51.86	43.01	35.12	24.56	20.70	10.76
1.75V/cell	518.8	382.4	328.1	213.1	127.6	71.33	51.66	42.61	34.70	24.36	20.50	10.56
1.80V/cell	482.8	348.7	302.5	203.7	124.6	70.05	50.25	41.61	34.07	23.95	20.30	10.35
1.85V/cell	420.3	311.6	271.3	190.9	118.4	66.95	48.04	39.60	32.61	22.94	19.69	9.744

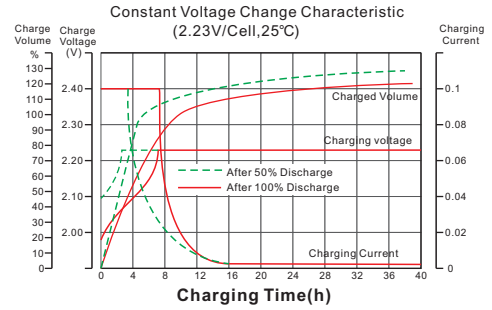
Constant Power Discharge Characteristics: W (25°C)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	600.0	4523	3770	2478	1494	839.6	605.4	501.7	411.4	289.7	237.4	125.4
1.65V/cell	587.8	4320	3691	2447	1487	836.3	604.2	500.5	408.9	288.5	234.9	124.2
1.70V/cell	554.8	4177	3641	2419	1476	828.6	600.6	498.1	407.6	286.1	233.7	123.0
1.75V/cell	499.6	3859	3472	2364	1462	820.9	597.0	494.5	403.9	283.6	231.3	121.7
1.80V/cell	463.3	3504	3190	2256	1425	808.8	582.5	481.2	397.6	277.6	228.9	120.5
1.85V/cell	399.9	3112	2849	2114	1351	771.5	553.6	458.3	377.5	267.8	221.6	115.6

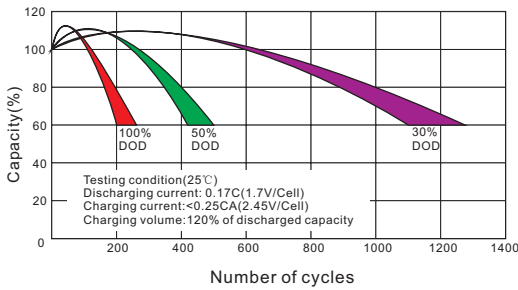
Discharge Characteristics Curve



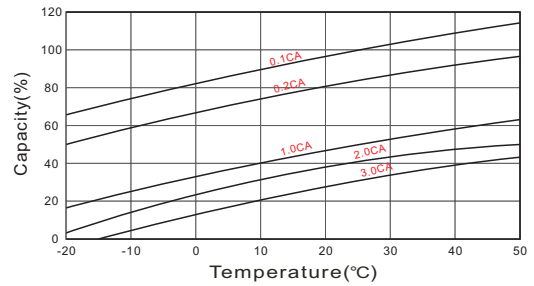
Charging Characteristics Curve



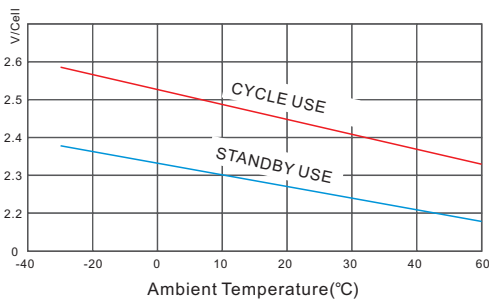
Cycle life in relation to depth of Discharge



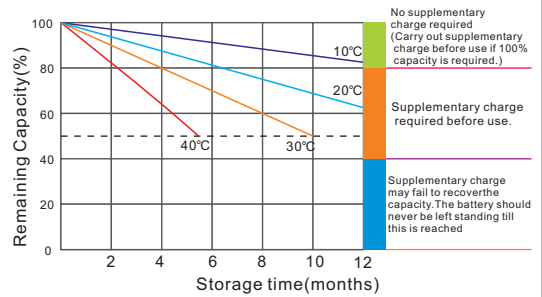
Temperature effects on Capacity



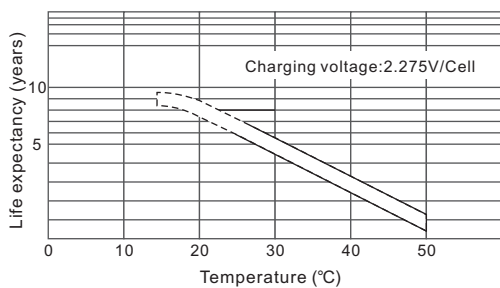
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

