

Specification

Nominal Voltage	12V
Number of cell	6
Nominal Capacity	250Ah@10hr-rate (25.0A to 1.80V/cell @25°C)
Weight	Approx.74.0Kg
Terminal	M8,Φ=18&20
Container Material	ABS (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.
Rated Capacity	257.0Ah 20hr-rate (12.85A to 1.80V/cell @25°C)
	250.0Ah 10hr-rate (25.0A to 1.80V/cell @25°C)
	205.0Ah 5hr-rate (41.0A to 1.75V/cell @25°C)
	157.0Ah 1hr-rate (157.0A to 1.60V/cell @25°C)
Max. Discharge Current	1000A(5sec)
Internal Resistance	Approx.2.0mΩ(Fully charged)
Operating Temp. Range	Discharge: -40°C~60°C
	Charge : -20°C~50°C
	Storage : -40°C~60°C
Cycle Use	Charging Current:≤50.0A
	Voltage:14.2V~14.4V
	Temperature compensation:-30mV/°C
Standby Use	Charging Current:No limit
	Voltage:13.6V~13.8V
	Temperature compensation:-20mV/°C
Self-Discharge	less than 1% at 25°C
Design Life	15 years (floating charge)



Introduction

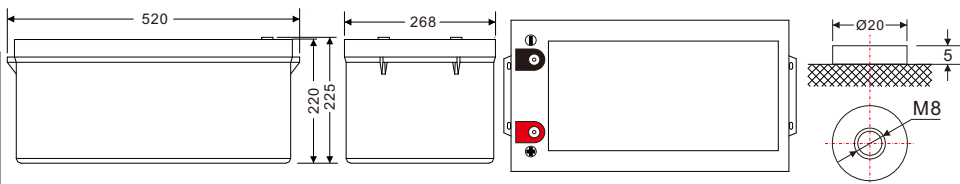
The MOTOMAGEL-TECH batteries designed with 15+ years service life. The SOLID-GEL system can avoid corrosion and stratification. The special separator can properly prevent short-circuit. It can offer high deep discharge ability, super thermal stability, good recovery-ability after deep discharging. The deep discharge cycles of GEL-TECH batteries can be more than 50% compared with other normal AGM batteries.

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	268±1mm (10.55 inches)
Height	220±1mm (8.66 inches)
Total Height	225±1mm (8.86 inches)



Unit: mm

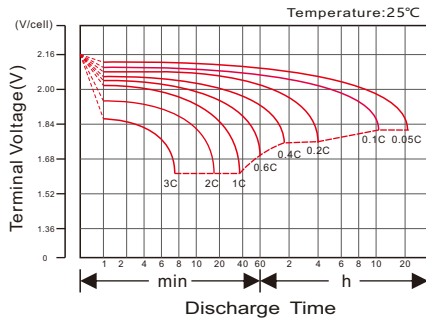
Constant Current Discharge Characteristics: A (25°C)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	851.5	610.2	444.0	278.7	157.5	89.93	63.25	52.35	44.08	30.43	26.20	13.86
1.65V/cell	828.8	580.6	434.9	274.1	156.8	89.25	63.01	52.11	43.82	30.18	25.95	13.61
1.70V/cell	780.9	560.1	428.0	271.7	155.3	88.58	62.53	51.86	43.57	29.93	25.70	13.35
1.75V/cell	701.3	516.8	407.5	264.9	153.9	87.90	62.28	51.38	43.05	29.68	25.45	13.10
1.80V/cell	633.0	471.3	375.7	253.3	150.3	86.32	60.59	50.17	42.27	29.19	25.20	12.85
1.85V/cell	551.0	421.2	337.0	237.3	142.7	82.49	57.92	47.74	40.45	27.95	24.44	12.09

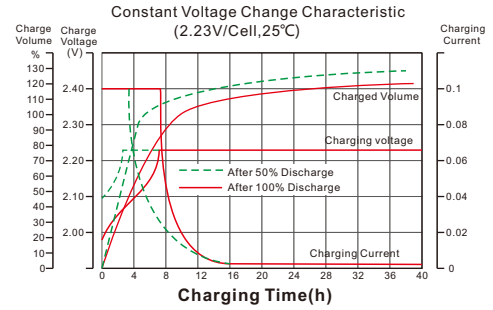
Constant Power Discharge Characteristics: W (25°C)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	8110	5930	4367	3145	1802	1035	730.0	604.9	510.3	353.1	294.6	155.6
1.65V/cell	7944	5664	4276	3106	1793	1030	728.5	603.5	507.2	351.6	291.6	154.1
1.70V/cell	7499	5476	4218	3070	1780	1021	724.1	600.5	505.7	348.6	290.1	152.6
1.75V/cell	6753	5060	4022	3000	1762	1012	719.8	596.2	501.0	345.7	287.1	151.1
1.80V/cell	6074	4594	3695	2863	1719	996.7	702.3	580.2	493.2	338.2	284.1	149.6
1.85V/cell	5243	4080	3300	2683	1629	950.7	667.4	552.6	468.3	326.4	275.0	143.5

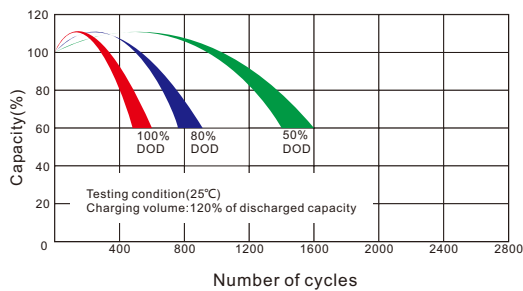
Discharge Characteristics Curve



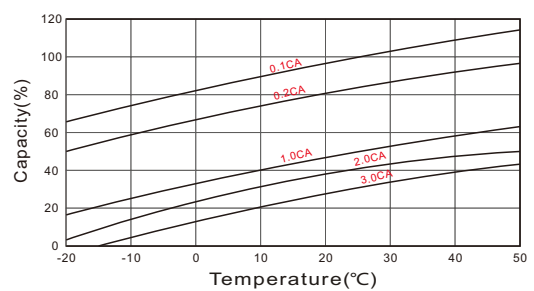
Charging Characteristics Curve



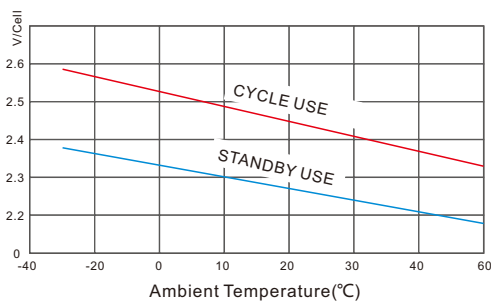
Cycle life in relation to depth of Discharge



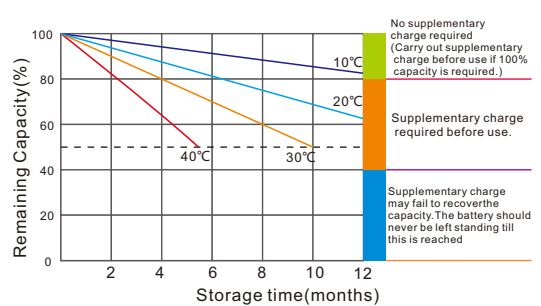
Temperature effects on Capacity



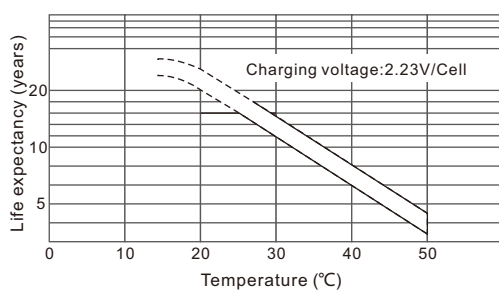
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

