

Specification

Nominal Voltage	12V
Number of cell	6
Nominal Capacity	38Ah@10hr-rate (3.8A to 1.80V/cell @25°C)
Weight	Approx. 12Kg
Terminal	M6, Φ=14
Container Material	ABS (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.
Rated Capacity	39.0Ah 20hr-rate (1.95A to 1.80V/cell @25°C)
	38.0Ah 10hr-rate (3.80A to 1.80V/cell @25°C)
	31.8Ah 5hr-rate (6.36A to 1.75V/cell @25°C)
	24.5Ah 1hr-rate (24.5A to 1.60V/cell @25°C)
Max. Discharge Current	400A(5sec)
Internal Resistance	Approx. 9.0mΩ(Fully charged)
Operating Temp. Range	Discharge: -40°C~60°C
	Charge : -20°C~50°C
	Storage : -40°C~60°C
Cycle Use	Charging Current: ≤11.4A
	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

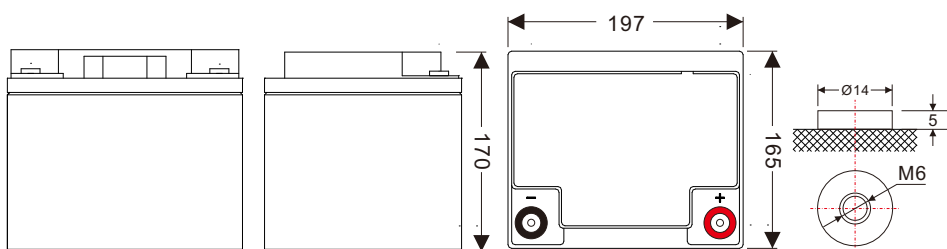
The MOTOMAGEL-TECH batteries designed with 15+ years service life. The SOLID-GEL system can avoid corrosion and stratification. The special separator can properly prevent short-circuit. It can offer high deep discharge ability, super thermal stability, good recovery ability after deep discharging. The 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	197±1mm (7.76 inches)
Width	165±1mm (6.50 inches)
Height	172±1mm (6.69 inches)
Total Height	172±1mm (6.69 inches)



Unit: mm

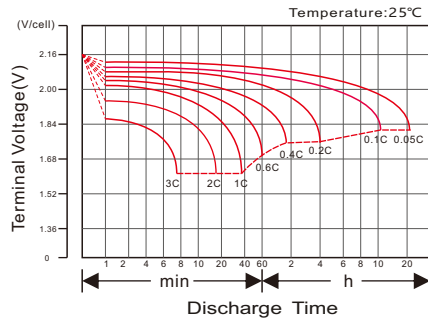
Constant Current Discharge Characteristics: A (25°C)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	125.8	90.17	65.61	41.19	23.28	13.29	9.348	7.736	6.515	4.625	3.983	2.106
1.65V/cell	122.5	85.80	64.26	40.51	23.17	13.19	9.312	7.700	6.476	4.587	3.945	2.068
1.70V/cell	115.4	82.77	63.25	40.15	22.96	13.09	9.240	7.664	6.438	4.550	3.906	2.030
1.75V/cell	103.6	76.38	60.23	39.14	22.74	12.99	9.204	7.593	6.361	4.512	3.868	1.991
1.80V/cell	93.54	69.65	55.52	37.43	22.20	12.76	8.954	7.414	6.246	4.437	3.830	1.953
1.85V/cell	81.42	62.25	49.80	35.06	21.09	12.19	8.560	7.055	5.978	4.249	3.715	1.838

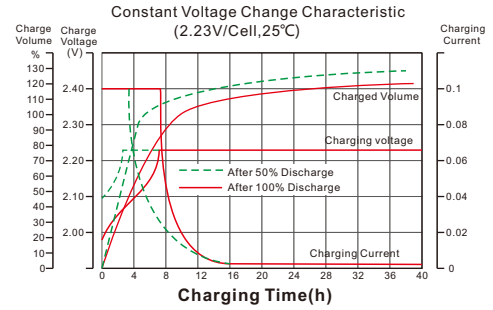
Constant Power Discharge Characteristics: W (25°C)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	1311	959	706	464.8	266.2	152.9	107.9	89.39	75.42	53.67	44.78	23.66
1.65V/cell	1284	916	691	459.0	265.0	152.3	107.7	89.18	74.96	53.44	44.33	23.43
1.70V/cell	1213	885	682	453.6	263.0	150.9	107.0	88.75	74.73	52.99	44.10	23.20
1.75V/cell	1092	818	650	443.3	260.4	149.5	106.4	88.10	74.04	52.54	43.64	22.97
1.80V/cell	982.1	742.8	597.5	423.1	254.0	147.3	103.8	85.74	72.89	51.41	43.18	22.74
1.85V/cell	847.8	659.7	533.5	396.5	240.7	140.5	98.63	81.66	69.21	49.61	41.80	21.82

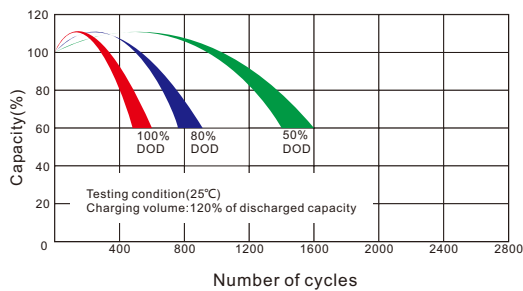
Discharge Characteristics Curve



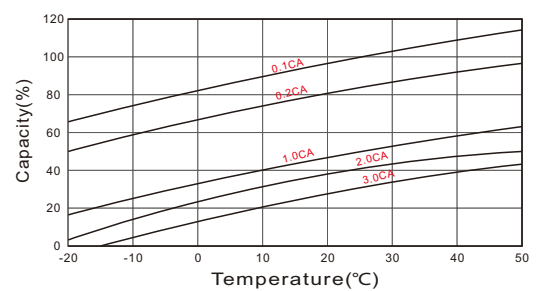
Charging Characteristics Curve



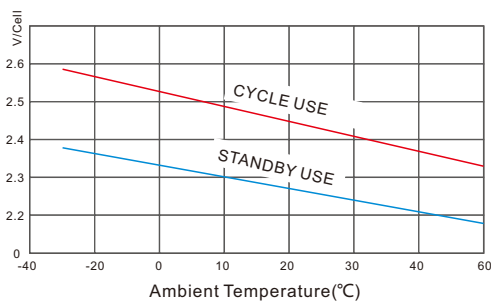
Cycle life in relation to depth of Discharge



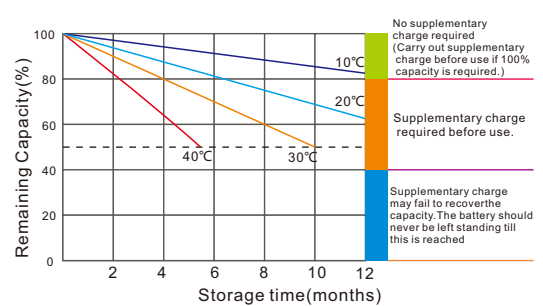
Temperature effects on Capacity



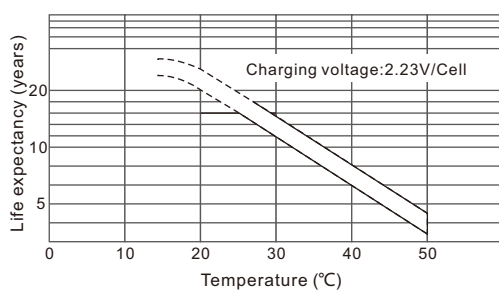
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

