

Specification

Nominal Voltage	12V
Number of cell	6
Nominal Capacity	33Ah@10hr-rate (3.3A to 1.80V/cell @25°C)
Weight	Approx.17.5Kg
Terminal	F21
Container Material	ABS (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.
Rated Capacity	56.0Ah 20hr-rate (2.80A to 1.80V/cell @25°C)
	55.0Ah 10hr-rate (5.50A to 1.80V/cell @25°C)
	47.8Ah 5hr-rate (9.57A to 1.75V/cell @25°C)
	35.0Ah 1hr-rate (35.0A to 1.60V/cell @25°C)
Max. Discharge Current	825A(5sec)
Internal Resistance	Approx.7.0mΩ(Fully charged)
Operating Temp. Range	Discharge: -40°C~60°C
	Charge : -20°C~50°C
	Storage : -40°C~60°C
Cycle Use	Charging Current:≤6.6A
	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

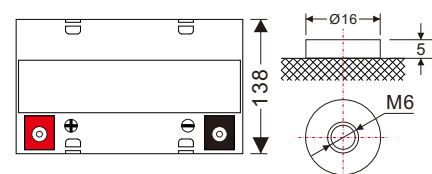
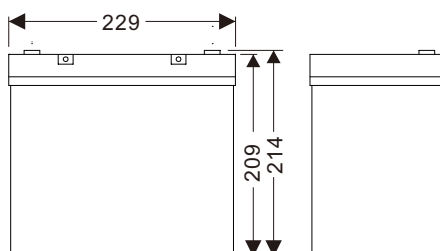
The MOTOMAGEL-TECH batteries designed with 15+ years service life. The SOLID-GEL system can avoid corrosion and stratification. The special separator can properly prevent short-circuit. It can offer high deep discharge ability, super thermal stability, good recovery-ability after deep discharging. The 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	229±1mm (9.01 inches)
Width	138±1mm (5.43 inches)
Height	209±1mm (8.22 inches)
Total Height	214±1mm (8.42 inches)



Unit: mm

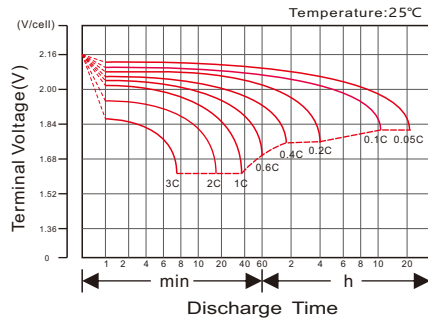
Constant Current Discharge Characteristics: A (25°C)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	189.4	135.7	98.76	62.00	35.04	20.00	14.07	11.64	9.806	6.768	5.723	3.026
1.65V/cell	184.4	129.1	96.73	60.97	34.88	19.85	14.02	11.59	9.749	6.713	5.668	2.971
1.70V/cell	173.7	124.6	95.22	60.43	34.56	19.70	13.91	11.54	9.691	6.658	5.613	2.916
1.75V/cell	156.0	115.0	90.66	58.92	34.23	19.55	13.85	11.43	9.575	6.603	5.558	2.861
1.80V/cell	140.8	104.8	83.57	56.34	33.42	19.20	13.48	11.16	9.402	6.493	5.503	2.806
1.85V/cell	122.6	93.70	74.96	52.78	31.75	18.35	12.88	10.62	8.999	6.218	5.338	2.641

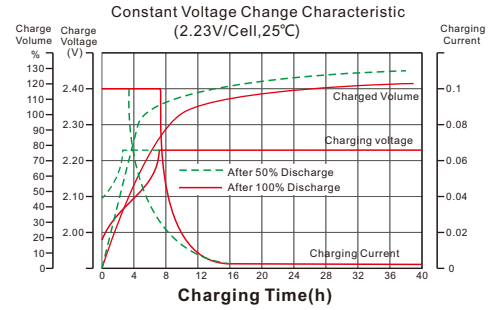
Constant Power Discharge Characteristics: W (25°C)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	1974	1443	1063	699.6	400.8	230.1	162.4	134.6	113.5	78.54	64.35	33.99
1.65V/cell	1934	1379	1041	690.9	398.8	229.2	162.1	134.2	112.8	78.21	63.69	33.66
1.70V/cell	1825	1333	1027	682.8	395.9	227.1	161.1	133.6	112.5	77.55	63.36	33.33
1.75V/cell	1644	1231	978.8	667.3	392.0	225.0	160.1	132.6	111.4	76.89	62.70	33.00
1.80V/cell	1478	1118	899.3	636.9	382.3	221.7	156.2	129.1	109.7	75.24	62.04	32.67
1.85V/cell	1276	993.0	803.1	596.8	362.3	211.5	148.5	122.9	104.2	72.60	60.06	31.35

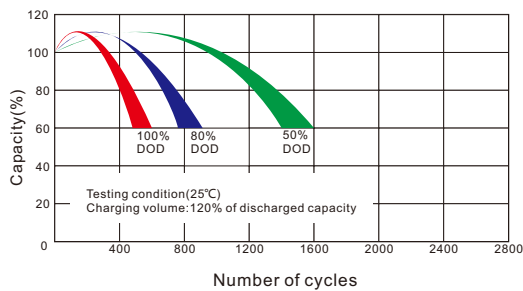
Discharge Characteristics Curve



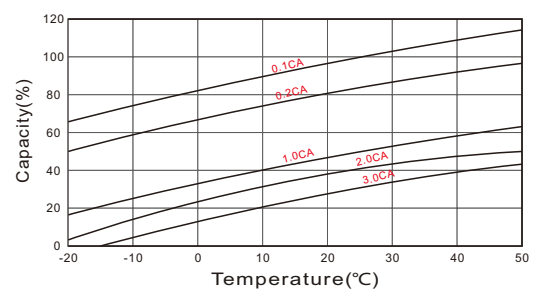
Charging Characteristics Curve



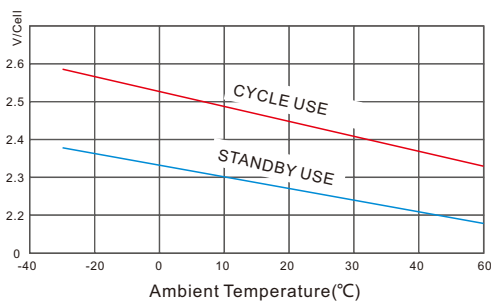
Cycle life in relation to depth of Discharge



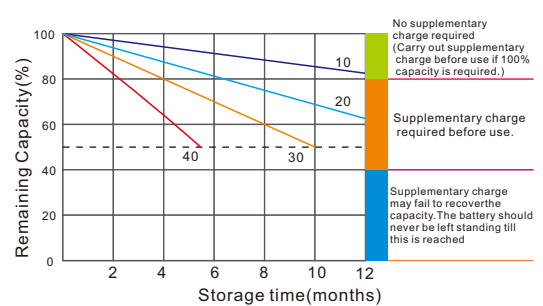
Temperature effects on Capacity



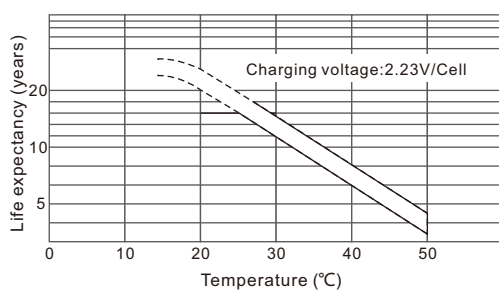
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

