

Specification

Nominal Voltage	12V
Number of cell	6
Nominal Capacity	200Ah@10hr-rate (20.0A to 1.80V/cell @25°C)
Weight	Approx.59.5Kg
Terminal	M8,Φ=18&20
Container Material	ABS (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.
Rated Capacity	205.0Ah 20hr-rate (10.25A to 1.80V/cell @25°C)
	200.0Ah 10hr-rate (20.0A to 1.80V/cell @25°C)
	167.0Ah 5hr-rate (33.4A to 1.75V/cell @25°C)
	122.0Ah 1hr-rate (122.0A to 1.60V/cell @25°C)
Max. Discharge Current	1000A(5sec)
Internal Resistance	Approx.2.6mΩ(Fully charged)
Operating Temp. Range	Discharge: -40°C~60°C
	Charge : -20°C~50°C
	Storage : -40°C~60°C
Cycle Use	Charging Current:≤40.0A
	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

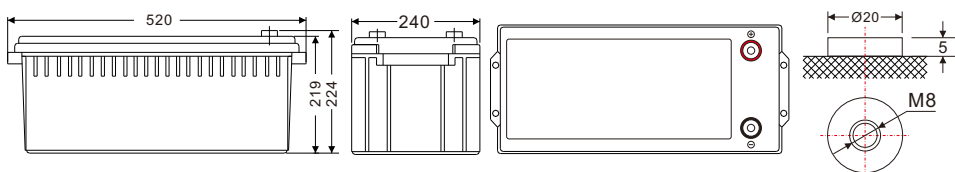
The MOTOMAGEL-TECH batteries designed with 15+ years service life. The SOLID-GEL system can avoid corrosion and stratification. The special separator can properly prevent short-circuit. It can offer high deep discharge ability, super thermal stability, good recovery-ability after deep discharging. The 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	240±1mm (9.45 inches)
Height	219±1mm (8.62 inches)
Total Height	224±1mm (8.82 inches)



Unit: mm

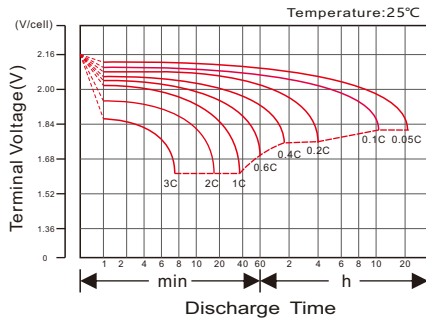
Constant Current Discharge Characteristics: A (25°C)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	662.3	474.6	345.3	216.8	122.5	69.95	49.20	40.72	34.29	24.34	20.96	11.09
1.65V/cell	644.6	451.6	338.2	213.2	122.0	69.42	49.01	40.53	34.09	24.14	20.76	10.88
1.70V/cell	607.4	435.6	332.9	211.3	120.8	68.89	48.63	40.34	33.88	23.95	20.56	10.68
1.75V/cell	545.4	402.0	317.0	206.0	119.7	68.37	48.44	39.96	33.48	23.75	20.36	10.48
1.80V/cell	492.3	366.6	292.2	197.0	116.9	67.14	47.12	39.02	32.88	23.35	20.16	10.28
1.85V/cell	428.5	327.6	262.1	184.5	111.0	64.16	45.05	37.13	31.46	22.36	19.55	9.675

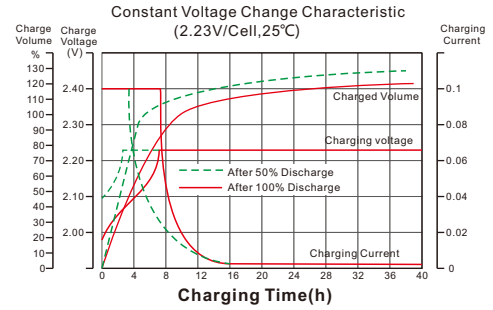
Constant Power Discharge Characteristics: W (25°C)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	630.8	461.3	339.6	244.6	140.1	804.6	567.7	470.5	396.9	282.5	235.7	124.5
1.65V/cell	617.9	440.6	332.6	241.6	139.4	801.5	566.6	469.4	394.5	281.3	233.3	123.3
1.70V/cell	583.3	425.9	328.0	238.7	138.4	794.1	563.2	467.1	393.3	278.9	232.1	122.1
1.75V/cell	525.2	393.5	312.8	233.3	137.1	786.8	559.8	463.7	389.7	276.5	229.7	120.9
1.80V/cell	472.5	357.3	287.4	222.7	133.7	775.2	546.3	451.3	383.6	270.6	227.2	119.7
1.85V/cell	407.8	317.3	256.6	208.7	126.7	739.4	519.1	429.8	364.3	261.1	220.0	114.8

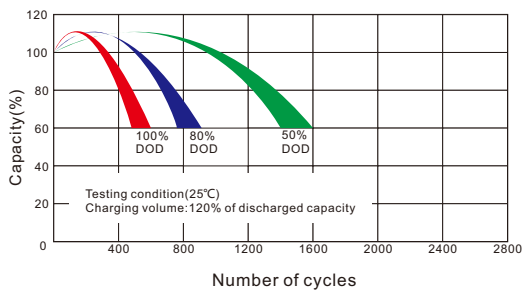
Discharge Characteristics Curve



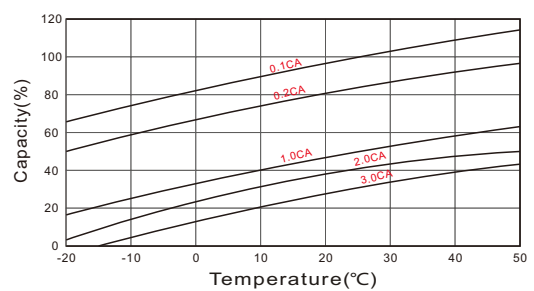
Charging Characteristics Curve



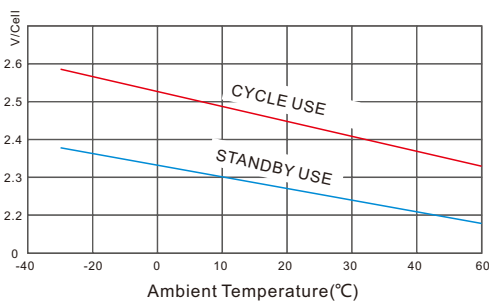
Cycle life in relation to depth of Discharge



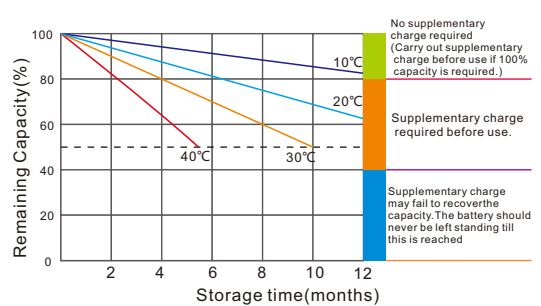
Temperature effects on Capacity



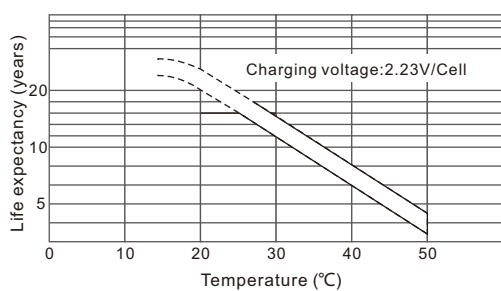
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

