MOTOMA®
Power into the Future

VRLA BATTERY | 12V-65G | 12V65Ah

SLA BATTERY—GEL TECHNOLOGY SERIES

Specification

Nominal Voltage	12V
Number of cell	6
Nominal Capacity	65Ah@10hr-rate (6.5A to 1.80V/cell @25℃)
Weight	Approx.23.4Kg
Terminal	M6,Φ=14&16
Container Material	ABS (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.
Rated Capacity	66.8Ah 20hr-rate (3.34A to 1.80V/cell @25℃) 65.0Ah 10hr-rate (6.5A to 1.80V/cell @25℃) 54.0Ah 5hr-rate (10.8A to 1.75V/cell @25℃) 39.8Ah 1hr-rate (39.8A to 1.60V/cell @25℃)
Max. Discharge Current	325A(5sec)
Internal Resistance	Approx.6.2mΩ(Fully charged)
Operating Temp. Range	Discharge: -40℃~60℃ Charge : -20℃~50℃ Storage : -40℃~60℃
Cycle Use	Charging Current:≤13.0A Voltage:14.2V~14.4V Temperature compensation:-30mV/℃
Standby Use	Charging Current:No limit Voltage:13.6V~13.8V Temperature compensation:-20mV/℃
Self-Discharge	less than 1% at 25℃
Design Life	15 years (floating charge)

Introduction

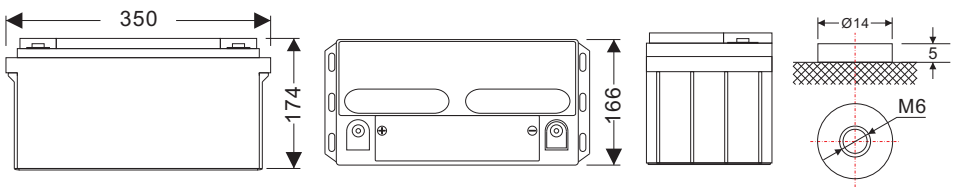
The MOTOMA GEL-TECH batteries designed with 15+ years service life. The SOLID-GEL system can avoid corrosion and stratification. The special separator can properly prevent short-circuit. It can offer high deep discharge ability, super thermal stability, good recovery-ability after deep discharging. The 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	350±1mm (13.78 inches)
Width	166±1mm (6.53 inches)
Heigth	174±1mm (6.85 inches)
Total Heigth	174±1mm (6.85 inches)



Unit: mm

Constant Current Discharge Characteristics: A (25℃)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	215.2	154.2	112.2	70.45	39.82	22.73	15.99	13.23	11.14	7.911	6.813	3.603
1.65V/cell	209.5	146.8	109.9	69.29	39.64	22.56	15.93	13.17	11.08	7.847	6.747	3.537
1.70V/cell	197.4	141.6	108.2	68.67	39.27	22.39	15.81	13.11	11.01	7.782	6.682	3.472
1.75V/cell	177.3	130.6	103.0	66.96	38.90	22.22	15.74	12.99	10.88	7.718	6.616	3.406
1.80V/cell	160.0	119.1	94.96	64.02	37.98	21.82	15.32	12.68	10.68	7.589	6.551	3.341
1.85V/cell	139.3	106.5	85.18	59.97	36.08	20.85	14.64	12.07	10.23	7.268	6.354	3.144

Constant Power Discharge Characteristics: W (25℃)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	2243	1640	1208	795.0	455.4	261.5	184.5	152.9	129.0	91.80	76.61	40.46
1.65V/cell	2197	1567	1183	785.1	453.2	260.5	184.2	152.5	128.2	91.41	75.82	40.07
1.70V/cell	2074	1514	1166	775.9	449.9	258.1	183.0	151.8	127.8	90.64	75.43	39.68
1.75V/cell	1868	1399	1112	758.3	445.5	255.7	181.9	150.7	126.6	89.87	74.64	39.28
1.80V/cell	1680	1271	1022	723.7	434.5	251.9	177.5	146.7	124.7	87.94	73.86	38.89
1.85V/cell	1450	1128	912.6	678.2	411.7	240.3	168.7	139.7	118.4	84.85	71.50	37.32

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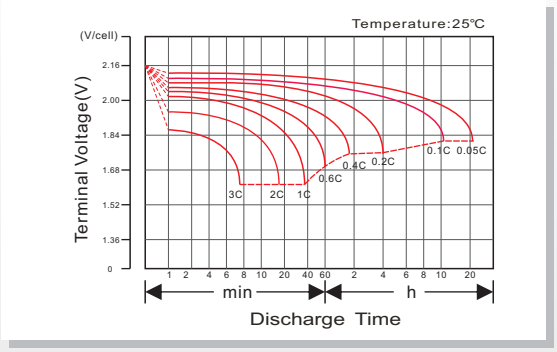
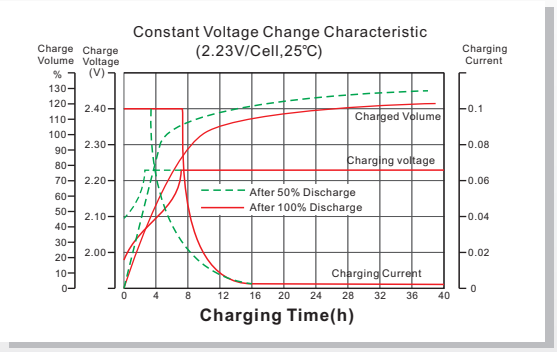
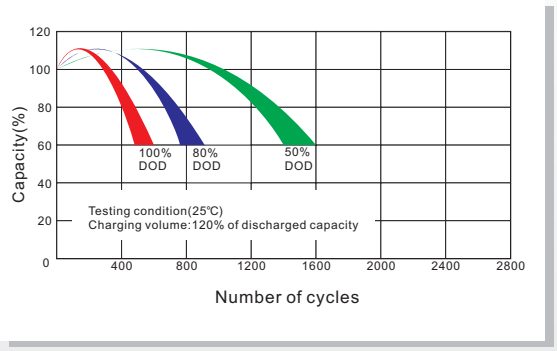
Discharge Characteristics Curve



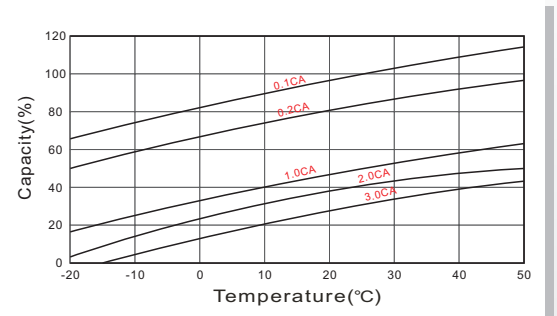
Charging Characteristics Curve



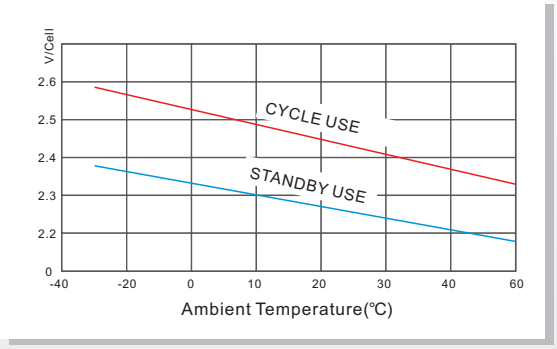
Cycle life in relation to depth of Discharge



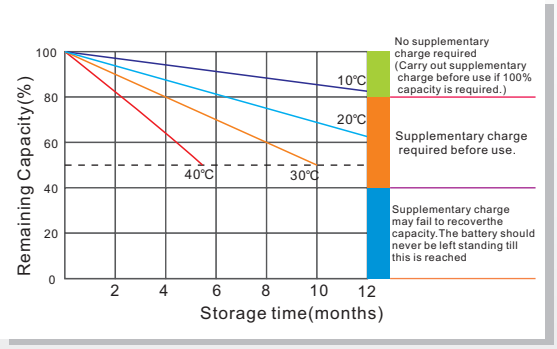
Temperature effects on Capacity



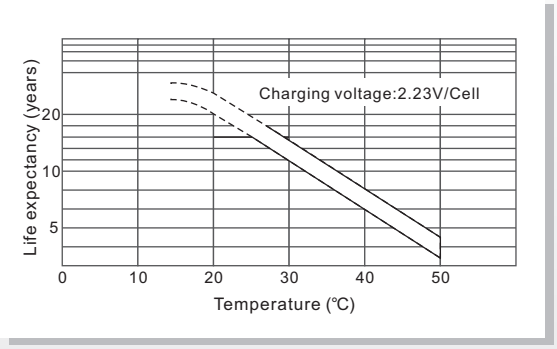
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use