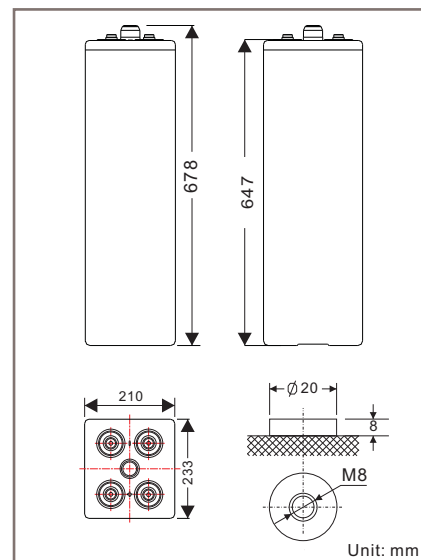


SLA BATTERY — OPzV SERIES
Specification

Nominal Voltage	2V
Number of cell	1
Nominal Capacity	1000Ah@ 10hr-rate (100.0A to 1.80V/cell @25°C)
Dimensions	Length 210±1mm (8.26 inches)
	Width 233±1mm (9.17 inches)
	Height 647±1mm (25.47 inches)
	Total Height 678±1mm (26.69 inches)
Weight	Approx. 81.0Kg
Terminal	M8, Φ=20
Container Material	A.B.S. (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.
Rated Capacity	1000Ah 10hr-rate (100.0A to 1.80V/cell @25°C)
	920Ah 5hr-rate (184A to 1.70V/cell @25°C)
	632Ah 1hr-rate (632A to 1.60V/cell @25°C)
Max. Discharge Current	4500A(5sec)
Max. Charging Current	250A
Internal Resistance	Approx.0.24 mΩ(Fully charged)
Operating Temp. Range	Maximum : -40°C~55°C
	Recommended : -15°C~50°C
	Storage : -20°C~40°C
Normal Operating Tem. Range	25±5°C
Cycle Use	Charging Current:≤250.0A
	Voltage:2.35V~2.40V
	Temperature compensation:-5mV/°C
Standby Use	Charging Current:No limit
	Voltage:2.25V
	Temperature compensation:-3mV/°C
Self-Discharge	MOTOMA SLA BATTERY SERIES can be stored for more than 6 months at 25°C. and self-discharge ratio is less than 2% of capacity declined per month at 25°C. Please charge batteries before using.
Design Life	18 years (floating charge)

Introduction


The MOTOMA OPzV series adopts traditional tubular gel technology, adopts patent gel electrolyte. They possess precise ABS heat seal technology between container and lid and patented post seal structure. Provide better deep cycle performance versus AGM. The design float life is 18+ years.


Applications

- ◆ Auto control system & ATM machine
- ◆ Electronic apparatus and equipment
- ◆ Railway system & Aircraft signal
- ◆ 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)
- ◆

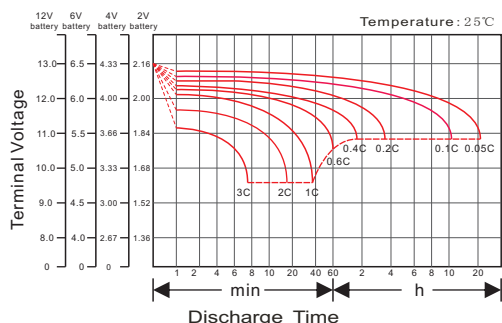
Constant Current Discharge Characteristics: A (25°C)

F. V/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V/cell	1024	870	632	413	313	238	196	167	131	107
1.65V/cell	975	831	612	400	303	231	192	164	129	106
1.70V/cell	924	792	592	386	292	225	188	161	127	105
1.75V/cell	873	751	566	370	281	218	184	157	124	102
1.80V/cell	820	708	541	354	268	210	178	153	121	100
1.85V/cell	768	666	515	337	256	203	173	148	118	98

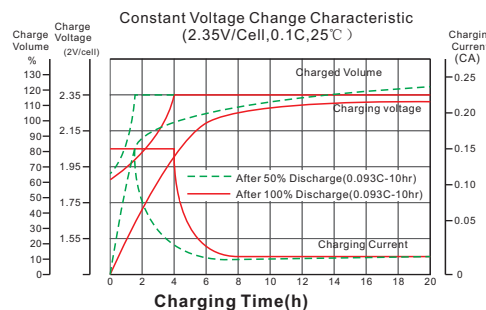
Constant Current Discharge Characteristics: W (25°C)

F. V/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V/cell	1726	1447	1114	748	571	434	358	308	246	205
1.65V/cell	1633	1373	1063	713	554	425	354	305	243	202
1.70V/cell	1539	1300	1014	680	537	417	350	301	240	200
1.75V/cell	1444	1225	983	659	521	405	341	293	234	195
1.80V/cell	1348	1148	908	609	504	395	335	288	231	192
1.85V/cell	1252	1071	832	558	487	385	328	283	227	189

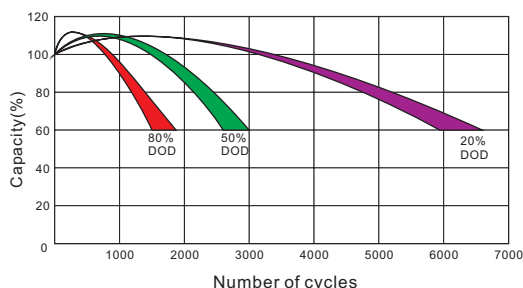
Discharge Characteristics Curve



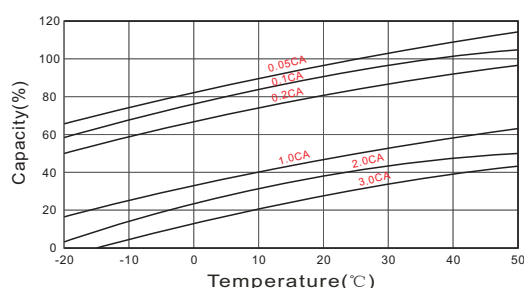
Charging Characteristics Curve



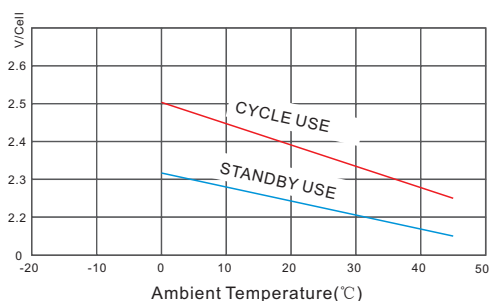
Cycle life in relation to depth of Discharge



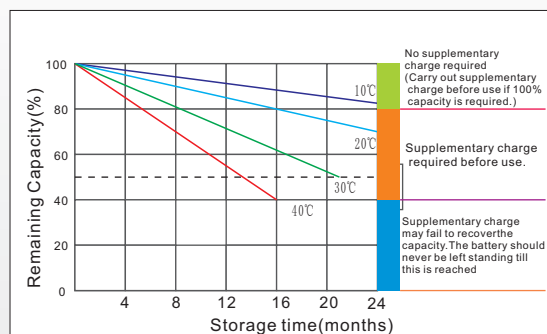
Temperature effects on Capacity



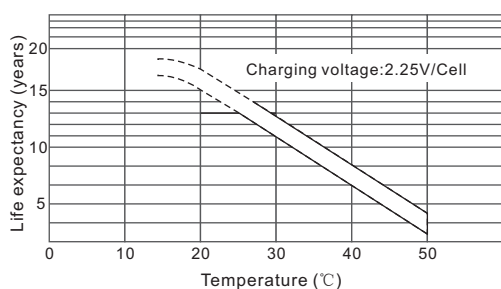
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

