

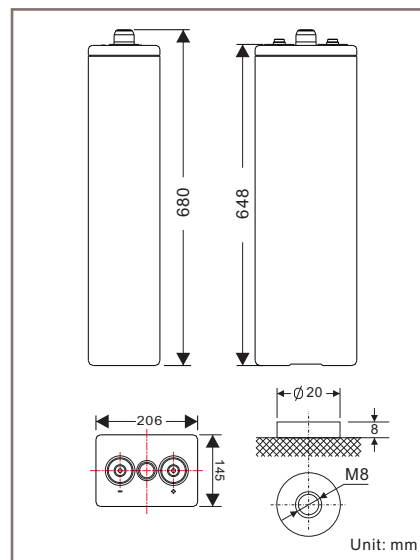
Specification

Nominal Voltage	2V
Number of cell	1
Nominal Capacity	600Ah@ 10hr-rate (60.0A to 1.80V/cell @25°C)
Dimensions	Length 206±1mm (8.11 inches)
	Width 145±1mm (5.71 inches)
	Height 648±1mm (25.51 inches)
	Total Height 680±1mm (26.77 inches)
Weight	Approx. 48.0Kg
Terminal	M8, Φ=20
Container Material	A.B.S. (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.
Rated Capacity	600Ah 10hr-rate (60.0A to 1.80V/cell @25°C)
	530Ah 5hr-rate (106A to 1.70V/cell @25°C)
	362Ah 1hr-rate (362A to 1.60V/cell @25°C)
Max. Discharge Current	3000A(5sec)
Max. Charging Current	150A
Internal Resistance	Approx.0.42 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:≤150.0A
	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)
- ◆

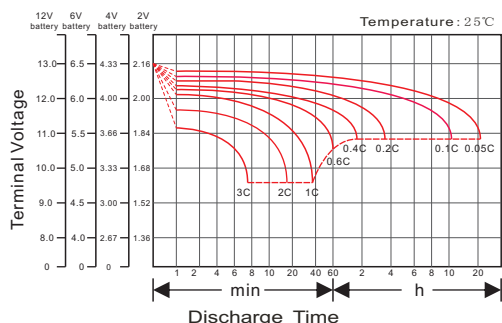
Constant Current Discharge Characteristics: A (25°C)

F. V/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V/cell	660.2	527.4	361.1	224.1	159.4	126.5	111.5	96.84	77.87	63.22
1.65V/cell	636.4	507.4	352.3	220.5	158.3	125.7	108.3	95.46	77.12	62.65
1.70V/cell	599.5	488.8	342.8	213.8	155.7	124.3	106.6	93.53	76.47	63.23
1.75V/cell	568.7	470.2	332.3	208.3	151.0	120.6	104.3	91.57	74.78	62.28
1.80V/cell	501.2	430.4	315.2	202.5	148.3	118.1	103.7	90.22	73.23	60.54
1.85V/cell	422.5	364.7	295.7	192.6	144.6	117.2	100.9	87.27	71.55	59.22

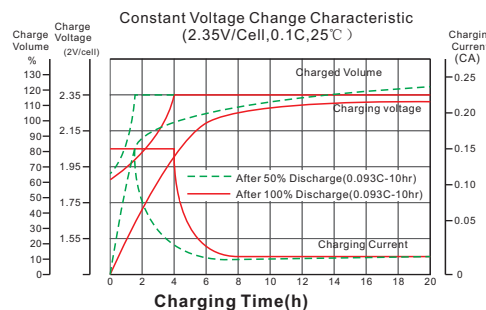
Constant Current Discharge Characteristics: W (25°C)

F. V/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V/cell	1318	1042	799.3	438.4	334.0	266.5	224.2	198.2	162.1	135.5
1.65V/cell	1255	988.3	743.9	436.1	331.1	264.3	221.0	194.3	159.3	134.7
1.70V/cell	1198	944.6	697.9	430.8	327.3	260.5	218.3	191.5	157.6	132.5
1.75V/cell	1132	908.3	656.3	420.3	317.5	250.8	209.8	167.8	155.3	129.9
1.80V/cell	1060	869.7	618.6	404.5	310.9	243.3	201.4	176.8	146.8	123.1
1.85V/cell	992.6	834.8	575.1	387.3	296.2	233.7	195.6	172.9	144.2	118.2

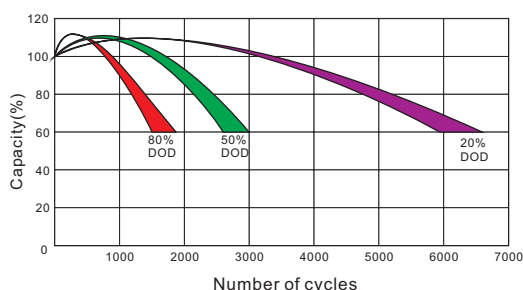
Discharge Characteristics Curve



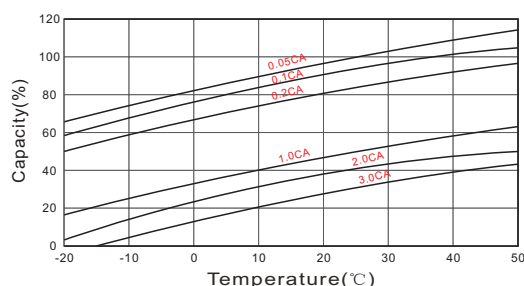
Charging Characteristics Curve



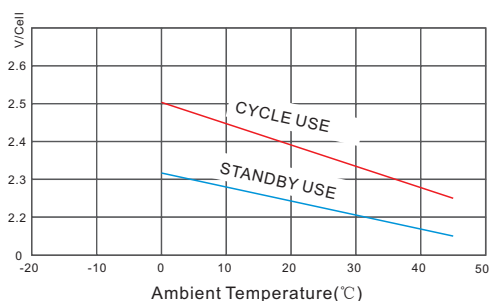
Cycle life in relation to depth of Discharge



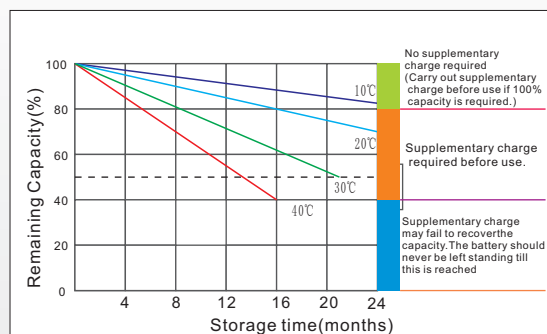
Temperature effects on Capacity



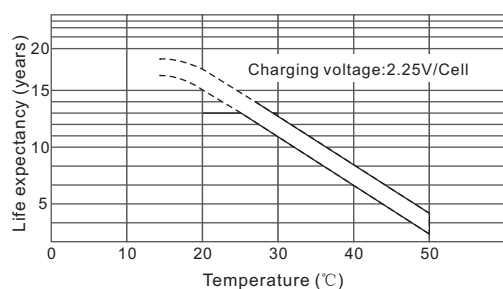
Relationship between charging voltage and temperature



Self-discharge Characteristics



Temperature effects on Float life



Life Characteristics of Standby use

