

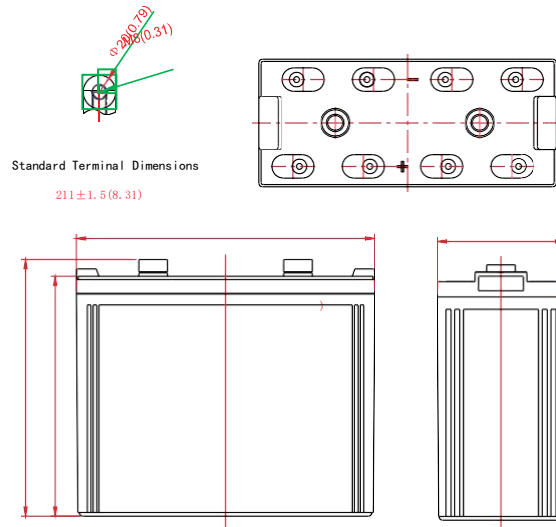


SILICON BATTERY

General Feature

- High Corrosion Resistant Performance: Pb-Ca multi-alloy grid
- Patented Silicate Compound Electrolyte: zero acid vapor, environment friendly
- High Energy Density and Power Density
- Excellent Charge Acceptance Ability
- Strong High and Low Temperature Performance
- Optimized Capability of instant High-current Discharging
- Excellent Deep Discharge Cycle Life
- The Designed Life is 15 Years

Outer Dimension



Specification

Normal Voltage	2V
Capacity	1000Ah (10hr, 1.80V, 25°C)
Weight	Approx. 58.5kg
Internal Resistance	0.16mΩ
Operating Temperature Range	Discharging temperature: -40°C~60°C
	Charging temperature: -40°C~60°C
	Storage temperature: -40°C~50°C
Recommended Operating Temperature	15°C~25°C
Floating Charging Voltage	2. 25V (25°C)
Max Charging Current (Recommended)	300A
Equalization Charging Voltage	2. 35V (25°C)
Self Discharging	Residual Capacity is more than 90% after 90 days @25°C
Terminal	M8
Contain Materials	ABS

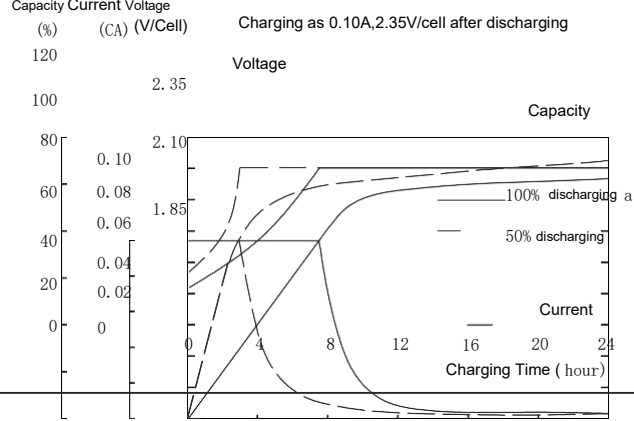
Constant Current Discharge Characteristics Unit: (A, 25°C)

F.V/Time	5min	15min	30min	1hour	2hour	3hour	5hour	8hour	10hour	24hour
1.60V	1667	1396	1034	654	385	283	192	132	110	49.5
1.65V	1540	1301	990	620	376	276	187	130	109	49.0
1.70V	1439	1220	911	592	363	268	186	128	107	49.0
1.75V	1372	1155	847	565	350	260	180	126	105	48.5
1.80V	1319	1089	792	529	335	252	176	124	103	47.5
1.85V	1168	966	706	477	302	239	170	120	100	46.0
1.90V	1005	817	606	424	283	224	164	116	96.5	45.0

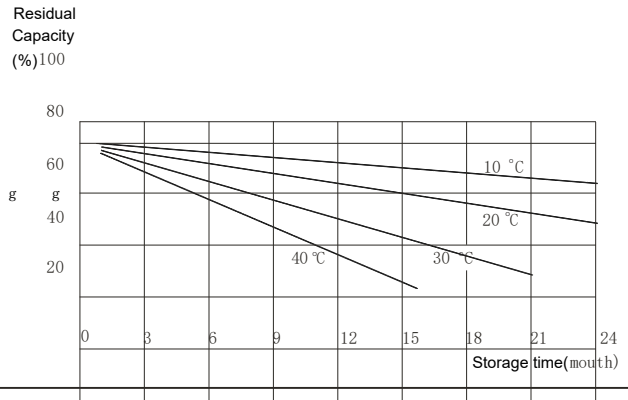
Constant Power Discharge Characteristics Unit:(W,25 °C)

F.V/Time	5min	15min	30min	1hour	2hour	3hour	5hour	8hour	10hour	24hour
1.60V	2833	2373	1890	1347	869	644	425	284	232	105
1.65V	2695	2277	1787	1244	797	604	410	273	226	103
1.70V	2591	2196	1743	1185	774	583	401	268	220	101
1.75V	2510	2114	1683	1139	747	561	391	258	216	100
1.80V	2441	2015	1624	1112	733	541	380	251	213	98.0
1.85V	2220	1835	1444	1012	673	513	363	243	205	94.0
1.90V	1959	1593	1218	871	584	475	339	227	190	88.0

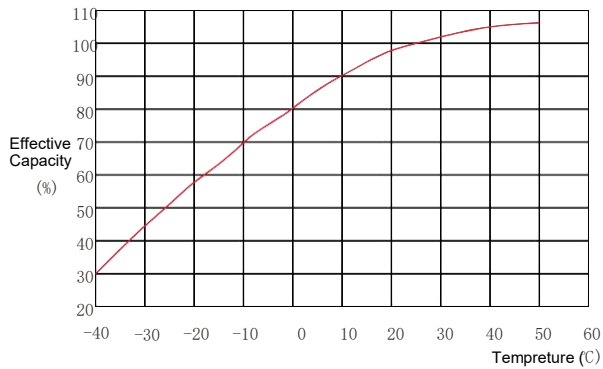
Charging Characteristics Curves



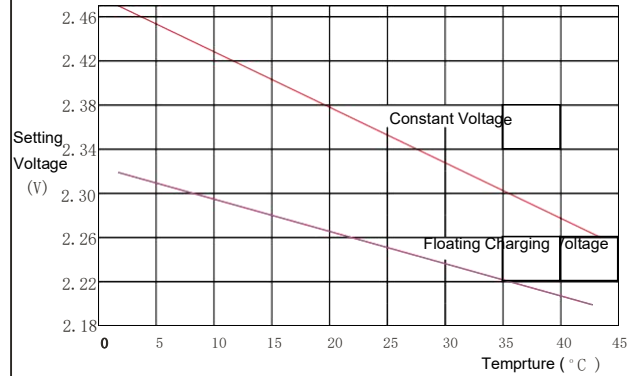
Self-Discharge Characteristics



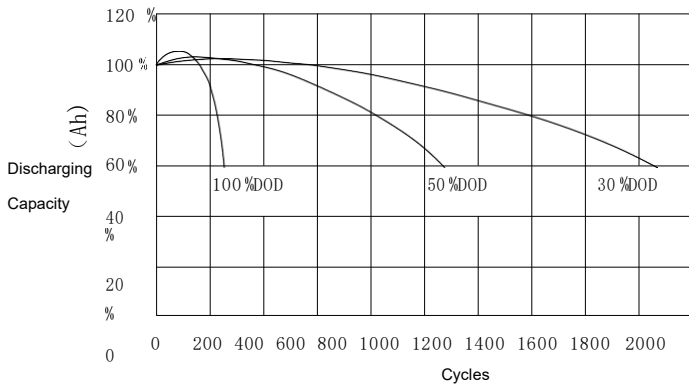
Temperature Vs Capacity



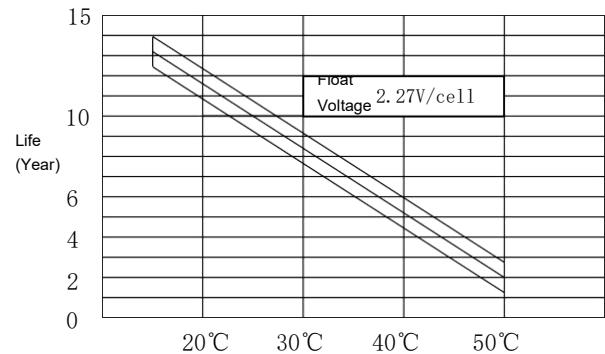
Temperature Vs Voltage Settings



Recycle Life



Temperature VS Float Life



Charging System

Application Type	Charging Voltage (V)			Max Current (A)
	Temperature (°C)	Setting Voltage	TEMPCO	
Cycle Use	25	2.35	-5mV/°C/pc	0.25C
Float Use	25	2.25	-3mV/°C/pc	

Relationship between Discharging Current and Discharging Voltage

Discharge Rate	1hr	3hr	8hr	10hr
Cut-Off Voltage (V)	1.75	1.80	1.80	1.80
Discharging Current (A)	0.55C	0.25C	0.12C	0.1C

