

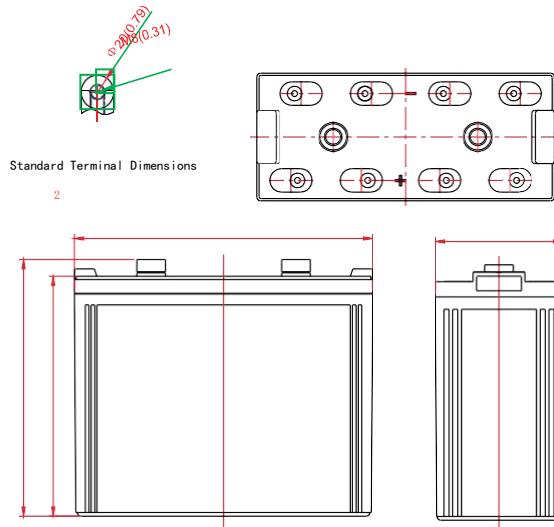


SILICON BATTERY

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	800Ah (10hr , 1.80V、25°C)
Weight	Approx. 49.5kg
Internal Resistance	0.2mΩ
Operating Temperature Range	Discharging tempreture: -40°C~60°C
	Charging tempreture: -40°C~60°C
	Storage tempreture: -40°C~50°C
Recommended Operating Temperature	15°C~25°C
Floating Charging Voltage	2. 25V (25°C)
Max Charging Current (Recommended)	240A
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

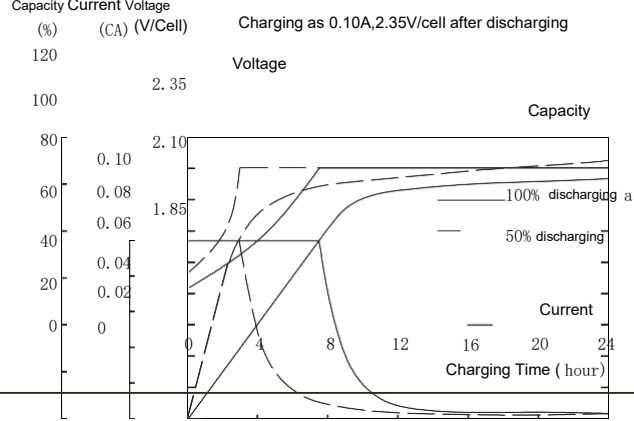
Constant Current Discharge Characteristics Unit: (A, 25°C)

F.V/Time	5min	15min	30min	1hour	2hour	3hour	5hour	8hour	10hour	24hour
1.60V	1333	1116	827	523	308	226	153	106	87.6	39.6
1.65V	1232	1041	792	496	301	220	150	104	86.8	39.2
1.70V	1151	976	729	474	290	214	148	102	85.2	39.2
1.75V	1097	924	677	452	280	208	144	101	84.0	38.8
1.80V	1055	871	634	423	268	201	141	99.2	82.4	38.0
1.85V	934	772	565	382	242	191	136	96.0	80.0	36.8
1.90V	804	653	485	339	226	179	131	92.4	77.2	36.0

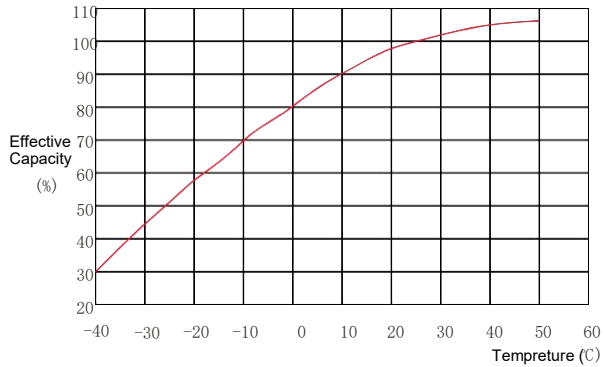
Constant Power Discharge Characteristics Unit:(W,25 °C)

F.V/Time	5min	15min	30min	1hour	2hour	3hour	5hour	8hour	10hour	24hour
1.60V	2266	1898	1512	1077	695	515	340	227	185	83.6
1.65V	2156	1822	1430	995	638	483	328	218	181	82.0
1.70V	2072	1757	1394	948	619	466	321	214	176	80.4
1.75V	2008	1691	1346	911	597	449	313	206	173	79.6
1.80V	1952	1612	1299	890	586	433	304	201	170	78.4
1.85V	1776	1468	1155	809	538	410	290	194	164	75.2
1.90V	1567	1274	974	697	467	380	271	182	152	70.4

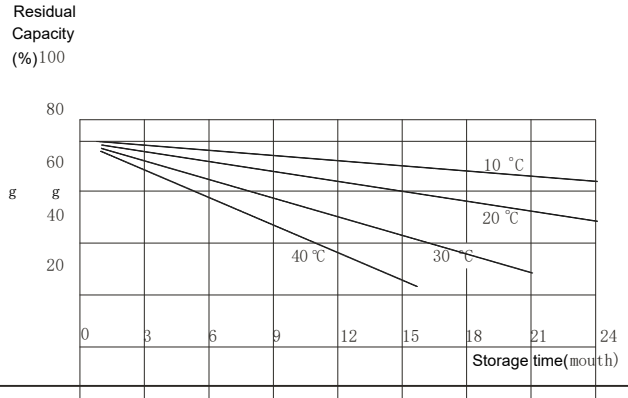
Charging Characteristics Curves



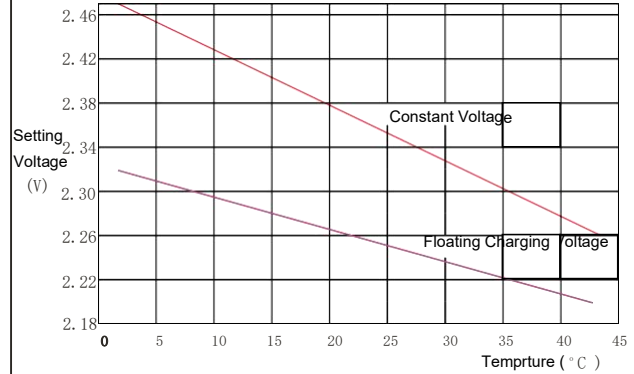
Temperature Vs Capacity



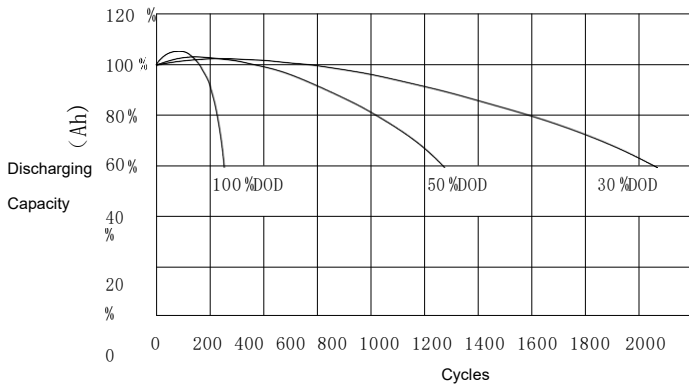
Self-Discharge Characteristics



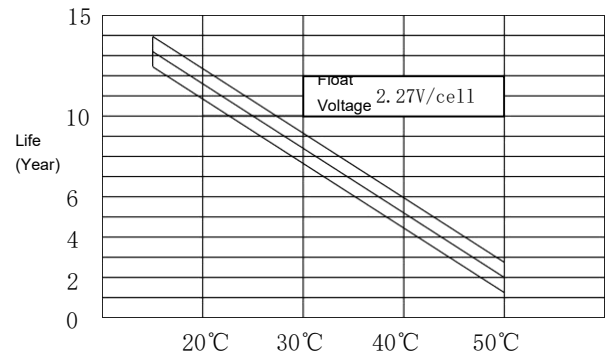
Temperature Vs Voltage Settings



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

