

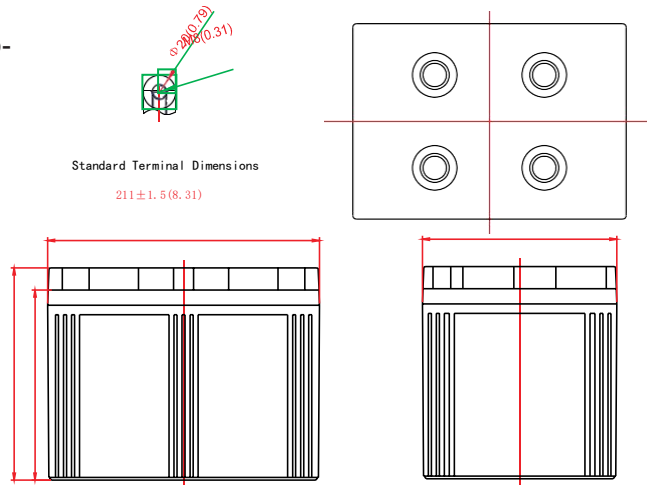


**SILICON BATTERY**

**Outer Dimension**

**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



**Specification**

Normal Voltage	2V
Capacity	2000Ah (10hr, 1.80V, 25°C)
Weight	Approx. 117kg
Internal Resistance	0.11mΩ
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)	600A
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

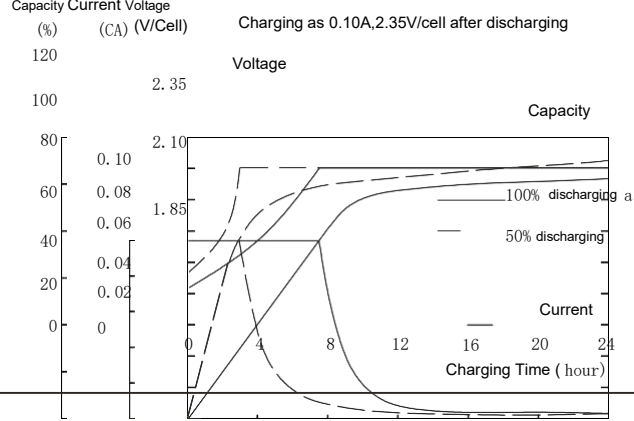
**Constant Current Discharge Characteristics Unit: ( A, 25°C)**

F.V/Time	5min	15min	30min	1hour	2hour	3hour	5hour	8hour	10hour	24hour
1.60V	3333	2791	2067	1307	770	565	383	264	219	99.0
1.65V	3079	2602	1980	1239	752	551	374	260	217	98.0
1.70V	2878	2440	1822	1184	725	535	371	255	213	98.0
1.75V	2743	2310	1693	1129	699	519	360	252	210	97.0
1.80V	2638	2178	1584	1057	669	503	352	248	206	95.0
1.85V	2336	1931	1412	954	604	477	340	240	200	92.0
1.90V	2009	1633	1212	847	566	447	327	231	193	90.0

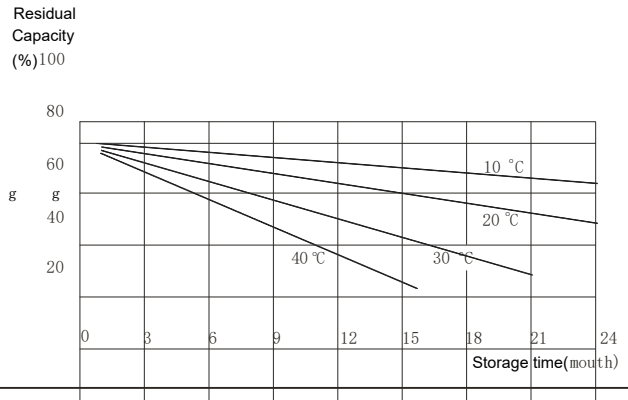
**Constant Power Discharge Characteristics Unit:( W,25 °C)**

F.V/Time	5min	15min	30min	1hour	2hour	3hour	5hour	8hour	10hour	24hour
1.60V	5666	4745	3779	2693	1737	1287	850	567	463	209
1.65V	5389	4554	3574	2488	1594	1208	820	546	452	205
1.70V	5181	4392	3485	2369	1548	1165	802	535	439	201
1.75V	5019	4227	3366	2277	1493	1122	782	515	432	199
1.80V	4881	4029	3247	2224	1465	1082	760	502	426	196
1.85V	4439	3670	2888	2023	1346	1025	725	485	409	188
1.90V	3917	3185	2435	1742	1168	950	677	454	380	176

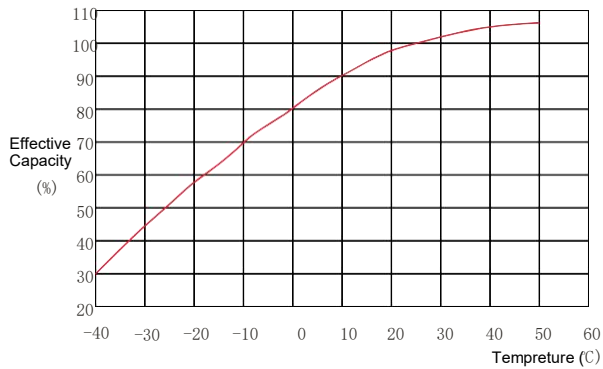
### Charging Characteristics Curves



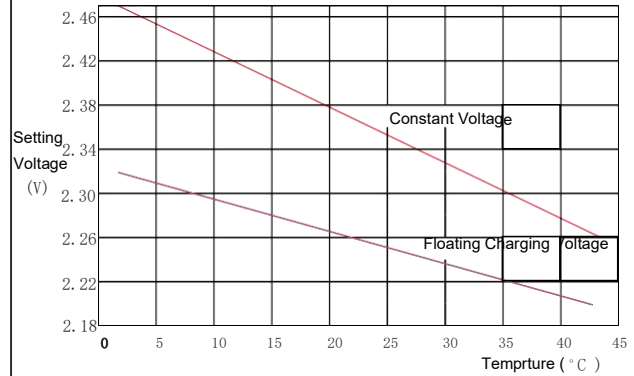
### Self-Discharge Characteristics



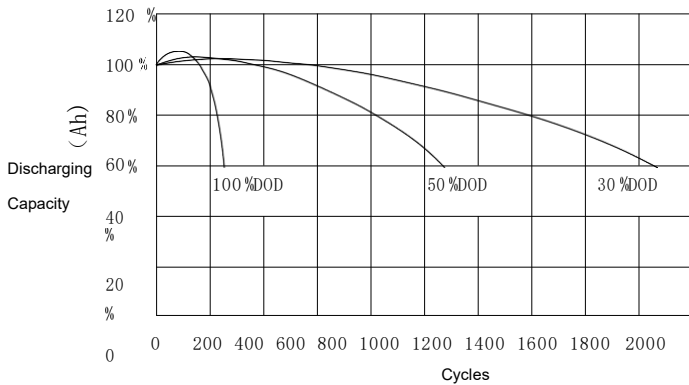
### Temperature Vs Capacity



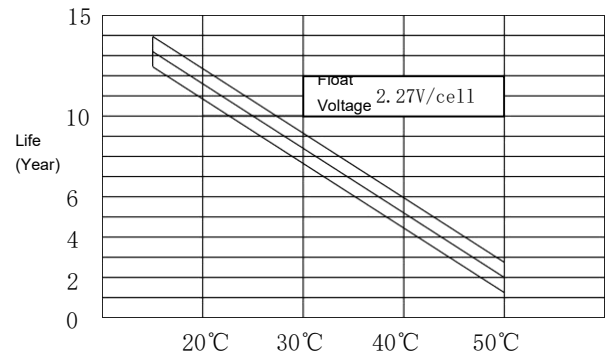
### Temperature Vs Voltage Settings



### 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

