

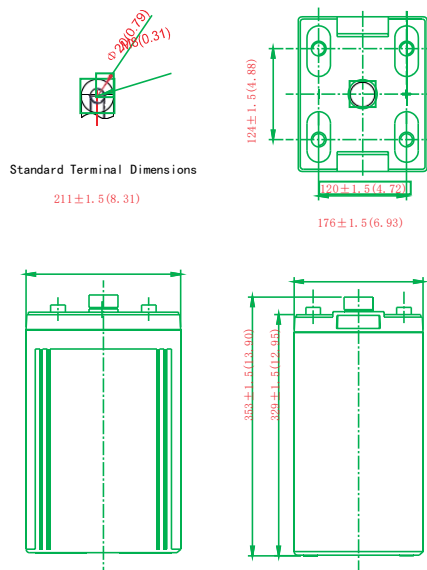


**SILICON BATTERY**

**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	600Ah (10hr , 1.80V、25°C)
Weight	Approx. 36.0kg
Internal Resistance	0.33mΩ
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)	180A
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

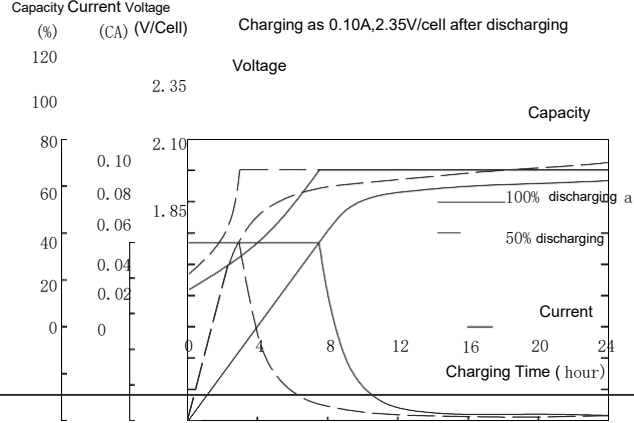
**Constant Current Discharge Characteristics Unit: ( A, 25°C)**

F.V/Time	5min	15min	30min	1hour	2hour	3hour	5hour	8hour	10hour	24hour
1.60V	1000	837	620	392	231	170	115	79.2	65.7	29.7
1.65V	924	781	594	372	226	165	112	78.0	65.1	29.4
1.70V	863	732	547	355	218	161	111	76.5	63.9	29.4
1.75V	823	693	508	339	210	156	108	75.6	63.0	29.1
1.80V	791	653	475	317	201	151	106	74.4	61.8	28.5
1.85V	701	579	424	286	181	143	102	72.0	60.0	27.6
1.90V	603	490	364	254	170	134	98.1	69.3	57.9	27.0

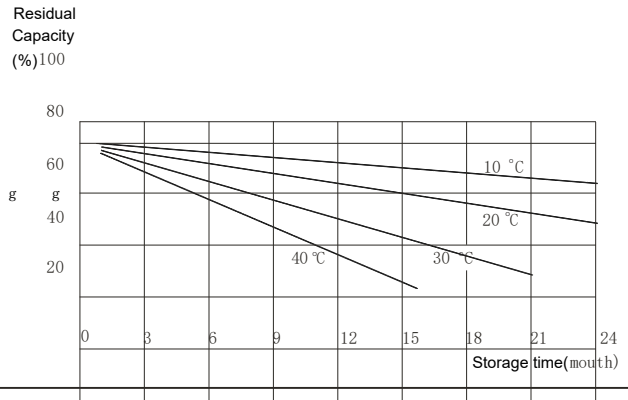
**Constant Power Discharge Characteristics Unit:( W,25 °C)**

F.V/Time	5min	15min	30min	1hour	2hour	3hour	5hour	8hour	10hour	24hour
1.60V	1700	1424	1134	808	521	386	255	170	139	62.7
1.65V	1617	1366	1072	746	478	362	246	164	136	61.5
1.70V	1554	1318	1046	711	464	350	241	161	132	60.3
1.75V	1506	1268	1010	683	448	337	235	155	130	59.7
1.80V	1464	1209	974	667	440	325	228	151	128	58.8
1.85V	1332	1101	866	607	404	308	218	146	123	56.4
1.90V	1175	956	731	523	350	285	203	136	114	52.8

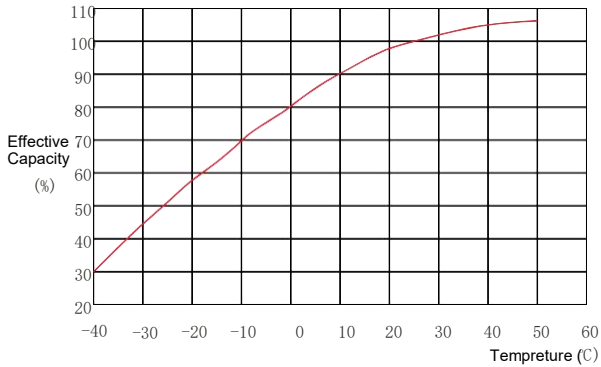
### Charging Characteristics Curves



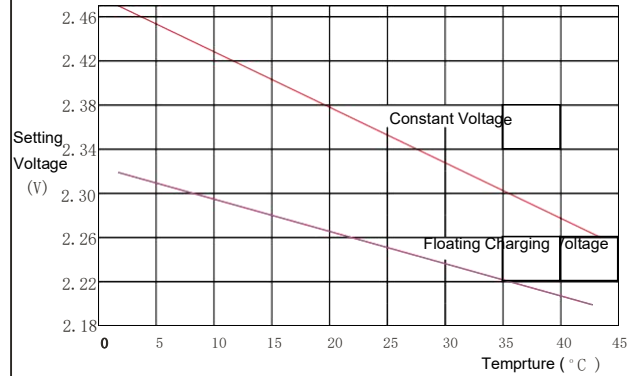
### Self-Discharge Characteristics



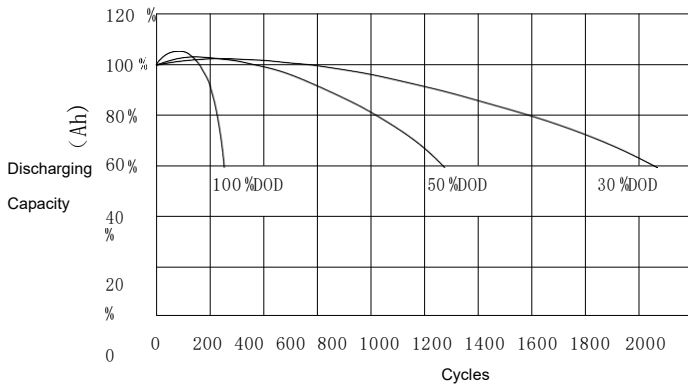
### Temperature Vs Capacity



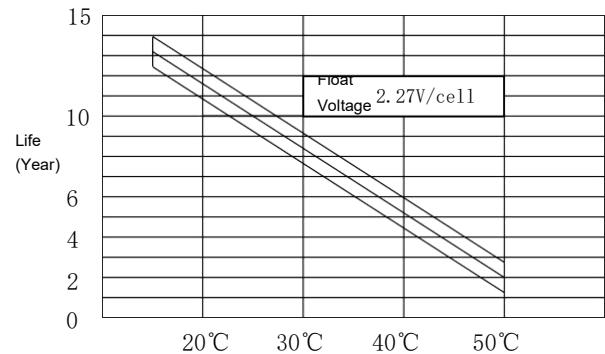
### Temperature Vs Voltage Settings



### 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

