

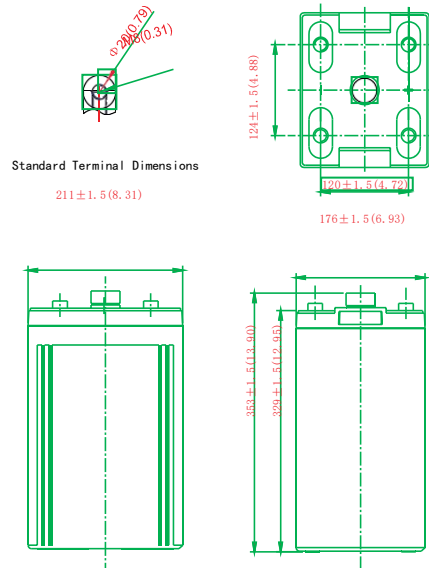


SILICON BATTERY

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	500Ah (10hr , 1.80V、25°C)
Weight	Approx. 32.0kg
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)	150A
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

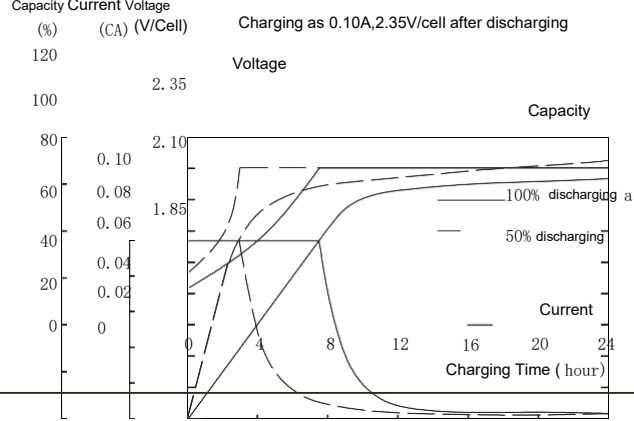
Constant Current Discharge Characteristics Unit: (A, 25°C)

F.V/Time	5min	15min	30min	1hour	2hour	3hour	5hour	8hour	10hour	24hour
1.60V	833	698	517	327	193	141	95.8	66.0	54.8	24.8
1.65V	770	651	495	310	188	138	93.5	65.0	54.3	24.5
1.70V	720	610	456	296	181	134	92.8	63.8	53.3	24.5
1.75V	686	578	423	282	175	130	90.0	63.0	52.5	24.3
1.80V	660	545	396	264	167	126	88.0	62.0	51.5	23.8
1.85V	584	483	353	239	151	119	85.0	60.0	50.0	23.0
1.90V	502	408	303	212	142	112	81.8	57.8	48.3	22.5

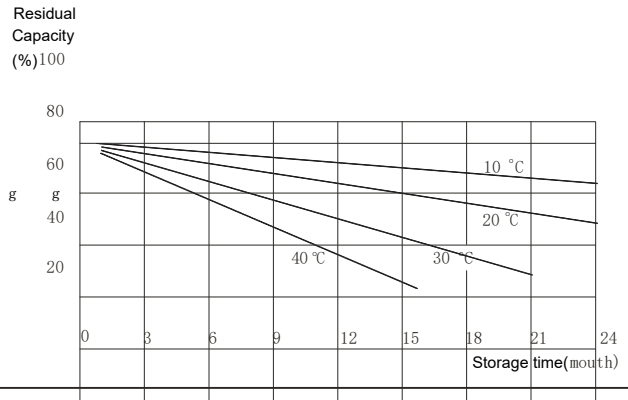
Constant Power Discharge Characteristics Unit:(W,25 °C)

F.V/Time	5min	15min	30min	1hour	2hour	3hour	5hour	8hour	10hour	24hour
1.60V	1417	1186	945	673	434	322	213	142	116	52.3
1.65V	1347	1139	894	622	399	302	205	137	113	51.3
1.70V	1295	1098	871	592	387	291	201	134	110	50.3
1.75V	1255	1057	842	569	373	281	196	129	108	49.8
1.80V	1220	1007	812	556	366	271	190	126	107	49.0
1.85V	1110	918	722	506	337	256	181	121	102	47.0
1.90V	979	796	609	436	292	238	169	114	95.0	44.0

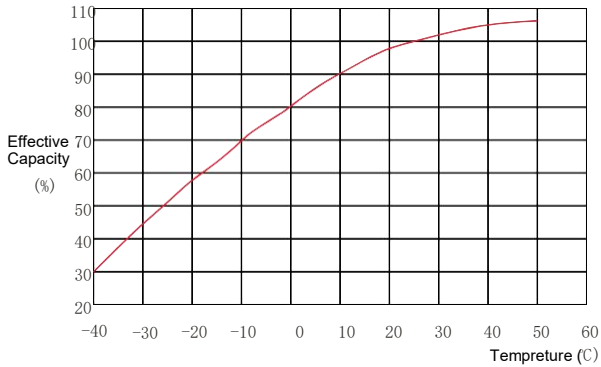
Charging Characteristics Curves



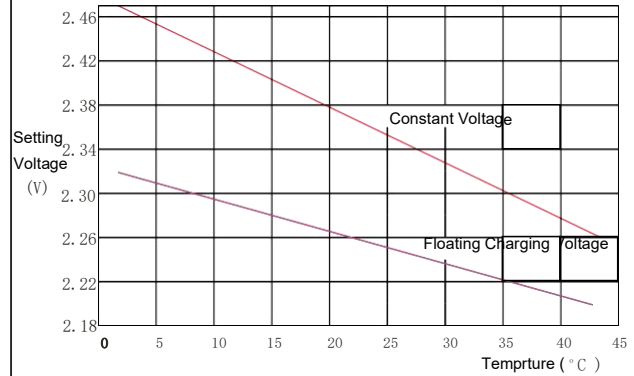
Self-Discharge Characteristics



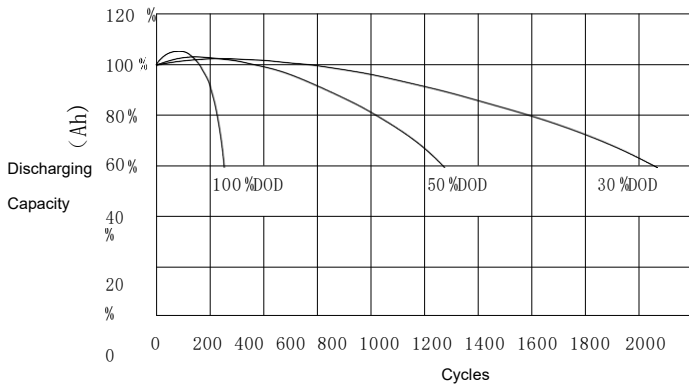
Temperature Vs Capacity



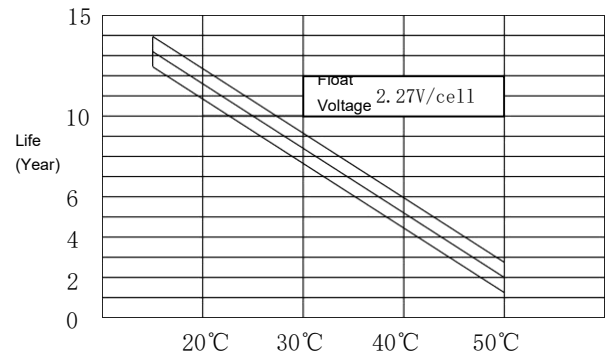
Temperature Vs Voltage Settings



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

