

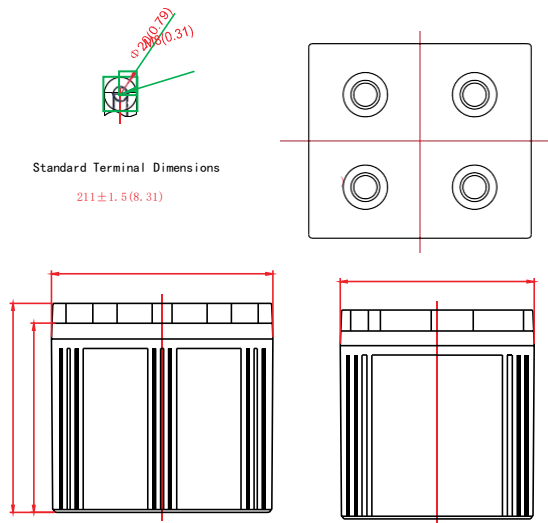


SILICON BATTERY

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	1500Ah (10hr, 1.80V、25°C)
Weight	Approx. 91kg
Internal Resistance	0.13mΩ
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)	450A
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

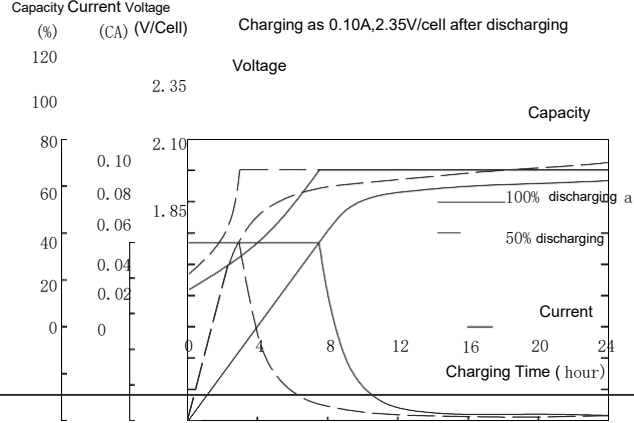
Constant Current Discharge Characteristics Unit: (A, 25°C)

F.V/Time	5min	15min	30min	1hour	2hour	3hour	5hour	8hour	10hour	24hour
1.60V	2500	2093	1550	980	578	424	287	198	164	74.3
1.65V	2309	1952	1485	929	564	413	281	195	163	73.5
1.70V	2159	1830	1367	888	544	401	278	191	160	73.5
1.75V	2057	1733	1270	847	524	389	270	189	158	72.8
1.80V	1979	1634	1188	793	502	377	264	186	155	71.3
1.85V	1752	1448	1059	716	453	358	255	180	150	69.0
1.90V	1507	1225	909	635	425	335	245	173	145	67.5

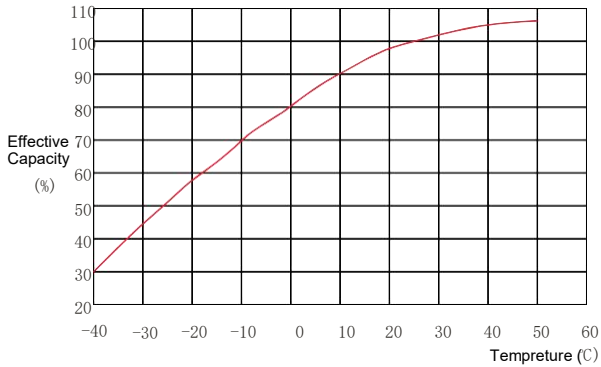
Constant Power Discharge Characteristics Unit:(W,25 °C)

F.V/Time	5min	15min	30min	1hour	2hour	3hour	5hour	8hour	10hour	24hour
1.60V	4250	3559	2834	2020	1303	965	638	425	347	157
1.65V	4042	3416	2681	1866	1196	906	615	410	339	154
1.70V	3886	3294	2614	1777	1161	874	602	401	329	151
1.75V	3764	3170	2525	1708	1120	842	587	386	324	149
1.80V	3661	3022	2435	1668	1099	812	570	377	320	147
1.85V	3329	2753	2166	1517	1010	769	544	364	307	141
1.90V	2938	2389	1826	1307	876	713	508	341	285	132

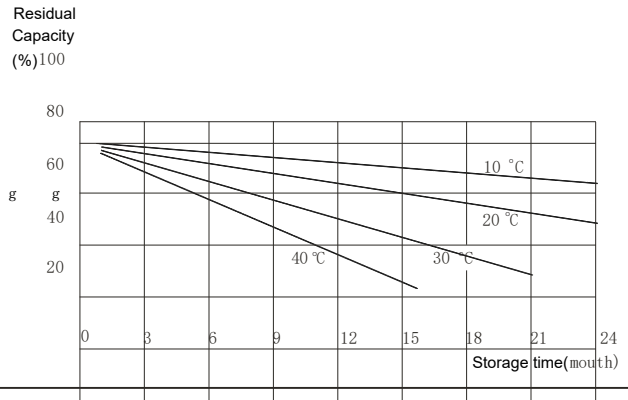
Charging Characteristics Curves



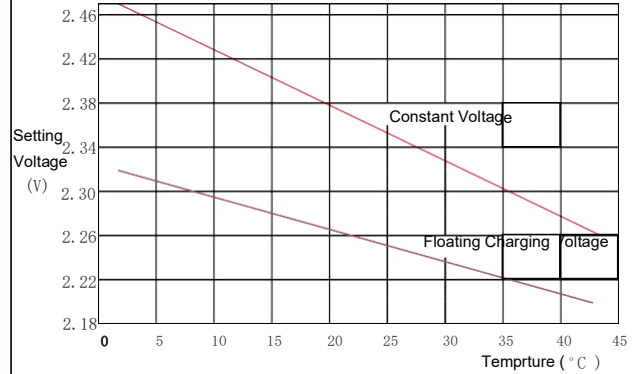
Temperature Vs Capacity



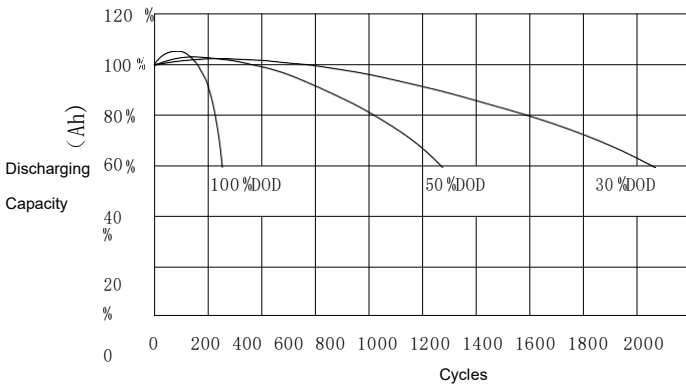
Self-Discharge Characteristics



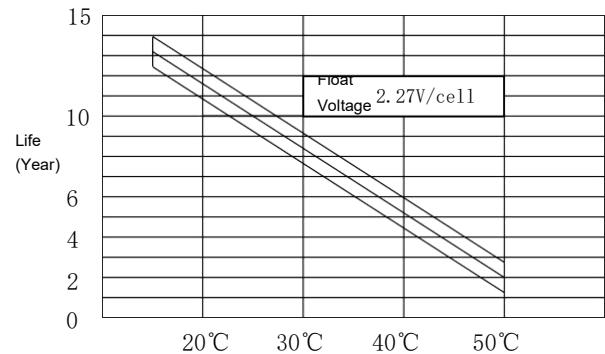
Temperature Vs Voltage Settings



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

