

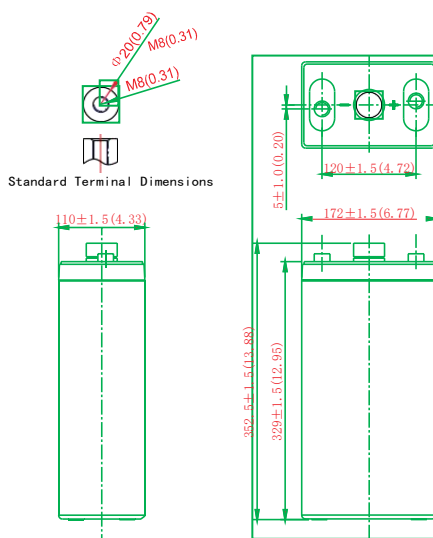


SILICON BATTERY

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 15Years

Outer Dimension



Specification

Normal Voltage	2V
Capacity	200Ah (10hr 、 1.80V、 25°C)
Weight	12.8kg
Internal Resistance	Approx.0.60mΩ
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)	60A
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

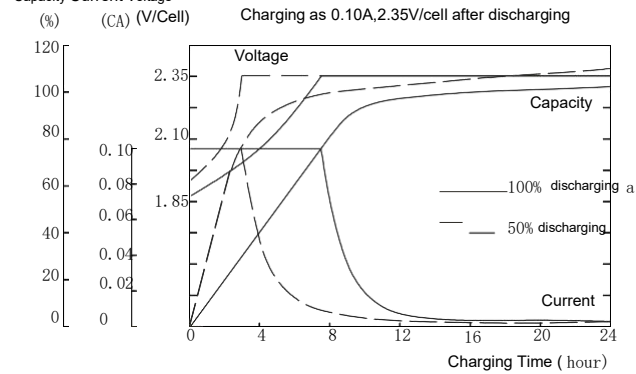
Constant Current Discharge Characteristics Unit: (A,25°C)

F.V/Time	5min	15min	30min	1hour	2hour	3hour	5hour	8hour	10hour	24hour
1.60V	333	279	207	131	77.0	56.5	38.3	26.4	21.9	9.90
1.65V	308	260	198	124	75.2	55.1	37.4	26.0	21.7	9.80
1.70V	288	244	182	118	72.5	53.5	37.1	25.5	21.3	9.80
1.75V	274	231	169	113	69.9	51.9	36.0	25.2	21.0	9.70
1.80V	264	218	158	106	66.9	50.3	35.2	24.8	20.6	9.50
1.85V	234	193	141	95.4	60.4	47.7	34.0	24.0	20.0	9.20
1.90V	201	163	121	84.7	56.6	44.7	32.7	23.1	19.3	9.00

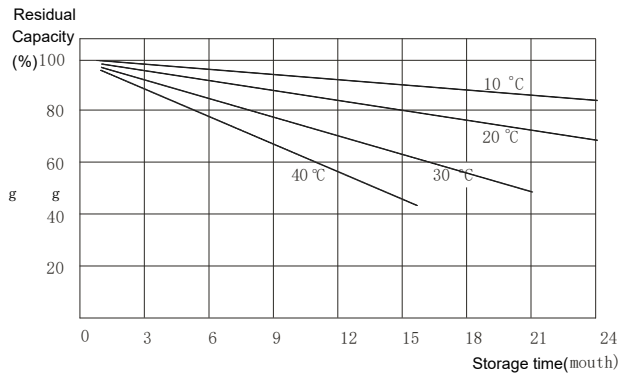
Constant Power Discharge Characteristics Unit: (W, 25°C)

F.V/Time	5min	15min	30min	1hour	2hour	3hour	5hour	8hour	10hour	24hour
1.60V	567	475	378	269	174	129	85.0	56.7	46.3	20.9
1.65V	539	455	357	249	159	121	82.0	54.6	45.2	20.5
1.70V	518	439	349	237	155	117	80.2	53.5	43.9	20.1
1.75V	502	423	337	228	149	112	78.2	51.5	43.2	19.9
1.80V	488	403	325	222	147	108	76.0	50.2	42.6	19.6
1.85V	444	367	289	202	135	103	72.5	48.5	40.9	18.8
1.90V	392	319	244	174	117	95.0	67.7	45.4	38.0	17.6

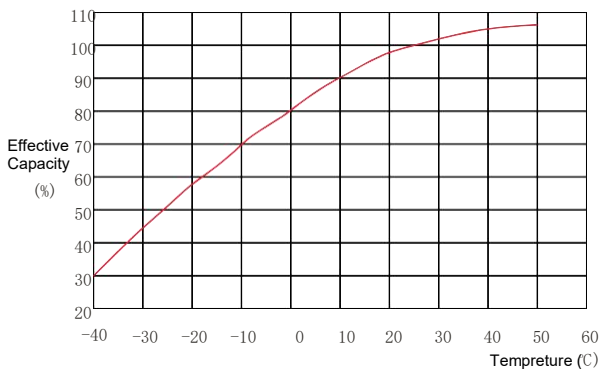
Charging Characteristics Curves



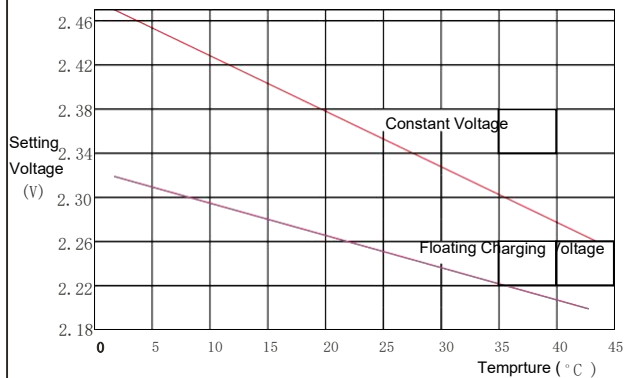
Self-Discharge Characteristics



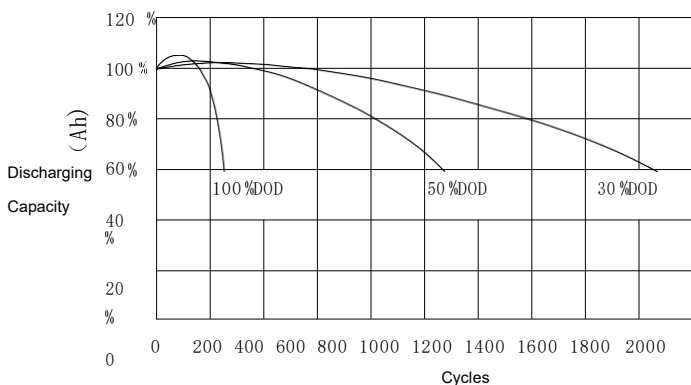
Temperature Vs Capacity



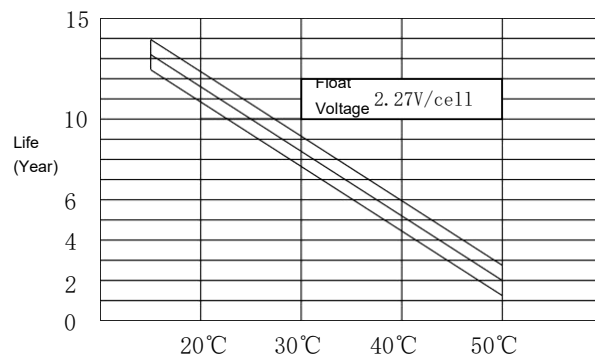
Temperature Vs Voltage Settings



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

