BRITECH HOLDING CO. LTD.

Silicon Battery

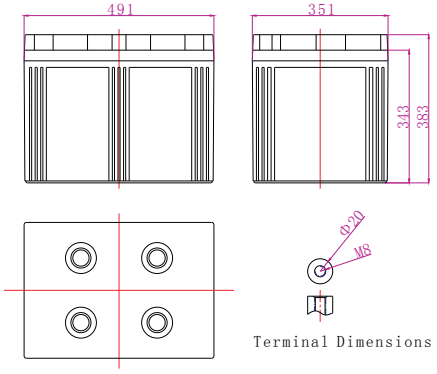
MODEL : GM-2000(2V2000Ah)

General Features

- 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

Dimension and Weight

Length	491mm±1.5mm
Width	351mm±1.5mm
Height	343mm±1.5mm
Total Height	383mm±1.5mm
Weight	120.0kg



Terminal Dimensions

Applications

Telecommunications
Photovoltaic / Cyclic
UPS
Power system
Emergency lighting
Broadcast and television system

Product Specification

Nominal Voltage:

2V

Rated Capacity:

10Hour Rate (200A to 1.80V)	2000Ah
3Hour Rate (500A to 1.80V)	1500Ah
1Hour Rate (1100A to 1.75V)	1100Ah

Internal Resistance:

About:0.09mΩ

Self discharge Rage:

10%/year(20℃)

Operating Temperature Range:

Discharge	-40℃~60℃(-40℉~140℉)
Charge	-40℃~60℃(-40℉~140℉)
Storage	-40℃~50℃(-40℉~122℉)

Charging Methods:

Floating Use	2.23V~2.27V(25℃)
Cycling Use	2.30V~2.35V(25℃)
Max Charge Current	600A

Constant Current Discharge Characteristics Unit: A (25℃, 77℉)

FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	24h	100h
1.60V	4167	2875	2129	1333	786	577	388	264	217	96.8	26.9
1.65V	3849	2680	1998	1264	767	562	378	260	215	96.4	26.7
1.70V	3598	2513	1876	1208	739	546	375	256	211	96.0	26.4
1.75V	3429	2379	1744	1151	713	530	365	252	208	94.9	26.0
1.80V	3298	2243	1632	1078	674	513	356	248	204	93.3	25.4
1.85V	2920	1989	1455	982	628	487	344	240	198	90.2	24.6
1.90V	2511	1682	1248	865	578	457	332	231	191	88.2	23.8

Constant Power Discharge Characteristics Unit: W (25℃, 77℉)

FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	24h	100h
1.60V	7083	4888	3892	2747	1650	1211	820	556	458	205	50.0
1.65V	6736	4691	3741	2538	1597	1167	794	546	448	201	49.6
1.70V	6477	4524	3589	2417	1538	1123	779	535	434	197	49.4
1.75V	6274	4354	3467	2323	1482	1079	759	515	428	195	49.1
1.80V	6101	4150	3345	2187	1413	1043	737	502	421	192	48.5
1.85V	5548	3780	2974	2022	1292	988	705	485	405	184	47.5
1.90V	4897	3280	2509	1777	1192	929	669	470	380	175	46.4

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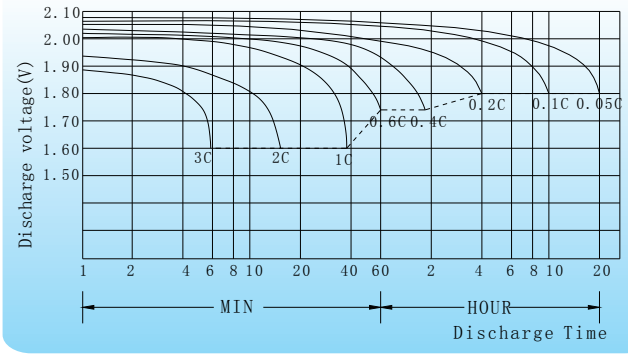
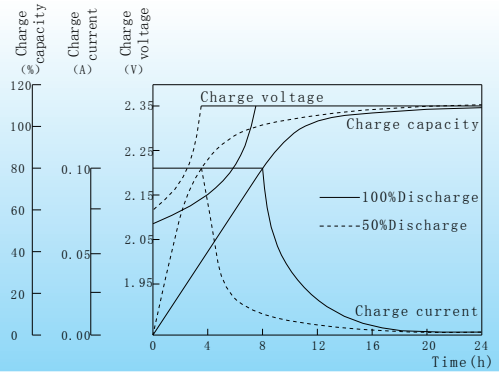
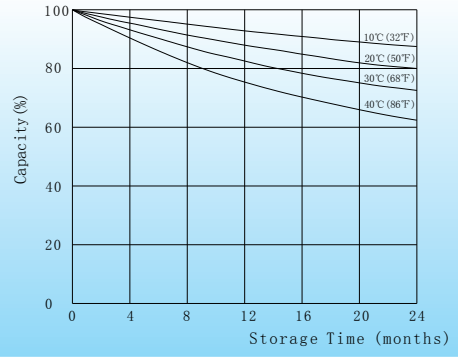
Discharge Characteristic Curve



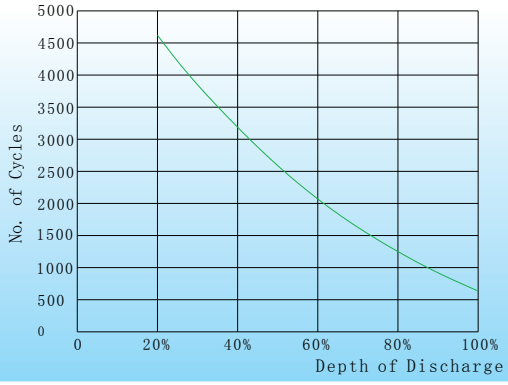
Constant voltage charging for standby use



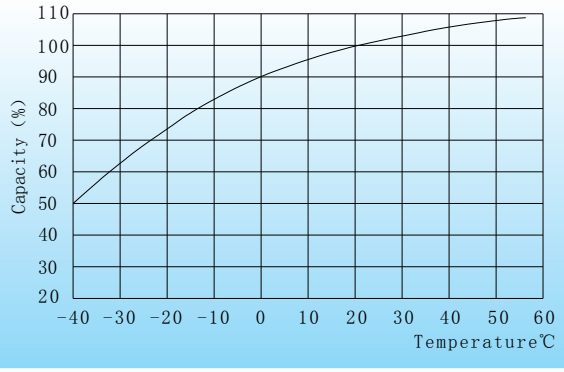
Self-discharge Characteristic Curve



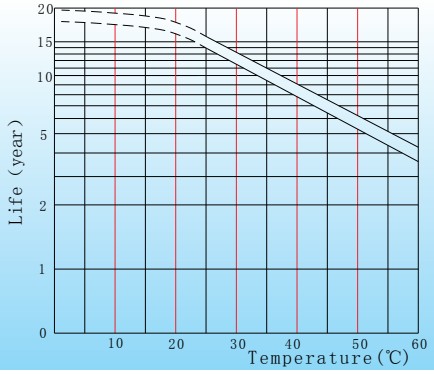
Cycle service life



Effect of temperature on capacity



Float service life



Charging Procedures

Application type	Charge Voltage(V)			Max charge current (A)
	Temp (℃)	Set point	Temperature compensation	
Cycle use	25	2.35	-5mV/℃/cell	0. 3C
Float use	25	2.25	-3mV/℃/cell	

The ralationship between discharge current and discharge voltage

Discharge rate	1hr	3hr	8hr	10hr
End voltage (V)	1.75	1.80	1.80	1.80
Discharge current (A)	0.55C	0.25C	0.12C	0.1C

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