

GFMJ-2000

2V2000Ah(10hr)

Complying standards:

IEC60896-21/22: 2004
DIN43539-T5
IEC61427-2005
YD/T1360-2005
GB/T 22473-2008



ABT-GFMJ is valve regulated batteries with Positive Flat Plates, incorporate imported key raw material and utilize the imported crucial gel-specialized manufacture equipments for production. Extra gel electrolyte design, plate thickened technology and patent gel electrolyte compounding and filling technique guarantee battery long service life and super high reliability. They are widely used in telecommunication, power supply system, energy storage, UPS and EPS system, etc.

Mechanical Characteristics

	SI Unit	EN Unit
Length	490mm	19.29inch
Width	350mm	13.78inch
Height	340mm	13.39inch
Total Height	350mm	13.78inch
Approx.Weight	140.0kg	308.4lbs

Type of material for container and lids:

ABS Standard (FV0 Optional)

Product Characteristics

- 15 years life expectancy in float service at 68°F (20°C), 25% DOD (end voltage 1.8V/cell) cycle 3500 times.
- Due our intensive research on corrosion effect, we improve the technology of grid alloy, lead plaste formula additive ,high temperature high humidity solidify and so on, increasing the content of 4PbO·PbSO4·H2O. , improving the binding ability of active substance and grid, reventing early capacity loss due to barrier layer between active substance and grid.
- Fumed Silica used for Gel electrolyte ensuring even distribution inside battery and no acid stratification.
- Extra electrolyte acid filling system which ensure quantity of gel electrolyte is correctly filled over the plates and separators.
- PVC-SiO2 micro-porous separator ensures low internal resistance, high porosity, intense absorption of gel electrolyte and long cyclic life.
- Low self-discharge rate, average month rate ≤2%;
- Gel electrolyte with high purity; storage at ambient temperature 20°C for two years, the rest capacity remains more than 50%.
- Thicken ABS container and cover with high-impact resistant, vibration resistant, prevents leakage and container deformation.

Performance Characteristics

- Rated voltage: 2V
- Rated capacity at 68°F (20°C)

10h rate (200A, 1.80V)	2000A
5h rate (350A, 1.80V)	1750Ah
1h rate (1120A, 1.80V)	1120Ah
- Internal resistance:

0.12mΩ when fully charged at 68°F (20°C)
--
- Average self discharge rate:

≤2% per month 68°F (20°C)

- Maximum discharge current:

11040A(3s) at 68°F (20°C)

- Working temperature range:

Discharge: -20~55°C
Charge: -10~55°C
Storage: -20~55°C
- Charging method:

with constant voltage at 68°F(20°C)
Maximum charge current: 400A
Temperature compensation: -3.5mV/°C/piece
Cycle use: 2.33-2.37V/ piece
Standby use: 2.23-2.27V/ piece



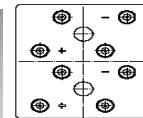
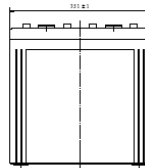
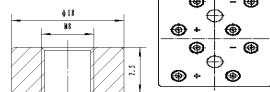
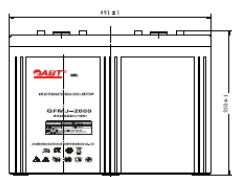
Advanced Battery Technology

GFMJ Series

GFMJ-1500

2V1500Ah(10hr)

Dimensions/Terminal



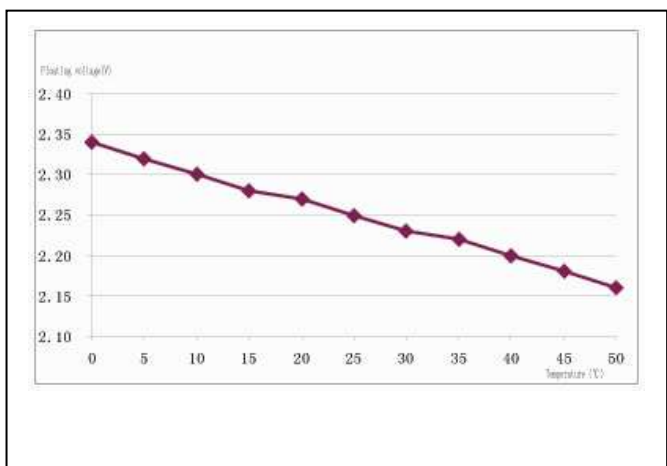
Constant Current Discharge Data (Ampere at 20°C/68 °F)

End Volt	5min	10min	15min	20min	30min	1h	2h	3h	5h	6h	8h	10h	20h	24h	48h	100h	120h	240h
1.65	3400	3100	2880	2600	2020	1250	750	550	380	340	266	225	113	92.4	48.6	25	21.8	11.6
1.70	3200	2950	2600	2270	1900	1230	737	544	371	322	258	213	111	92.4	48.6	25	21.8	11.6
1.75	3000	2790	2480	2190	1840	1210	723	536	364	317	253	209	110	92.4	48.6	25	21.8	11.6
1.80	2800	2650	2290	2020	1700	1120	694	512	350	305	243	200	108	92.4	48.6	25	21.8	11.6
1.85	2400	2290	2090	1890	1590	1080	653	480	329	286	228	189	102	88	48.6	25	21.8	11.6

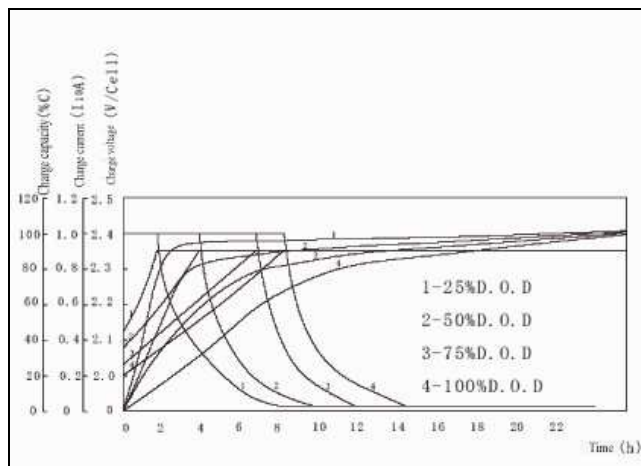
Constant Power Discharge Data (Watts per cell at 20°C/68 °F)

End Volt	5min	10min	15min	20min	30min	1h	2h	3h	5h	6h	8h	10h	20h	24h	48h	100h	120h	240h
1.65	5940	5510	5180	4710	3690	2320	1400	1040	720	501	400	330	183	169	97.2	50	44	23.4
1.70	5690	5340	4750	4180	3510	2300	1390	1040	710	486	385	319	183	167	97.2	50	44	23.4
1.75	5470	5150	4620	4100	3460	2290	1380	1030	700	469	372	307	183	165	97.2	50	44	23.4
1.80	5230	4980	4340	3830	3250	2140	1350	990	680	452	358	300	183	161	97.2	50	44	23.4
1.85	4580	4390	4020	3660	3090	2110	1280	940	650	429	341	283	176	153	97.2	50	44	23.4

Floating Charge Voltage Vs Temperature



Cycle charge characteristic curve (at 20°C/68 °F)



Contact information

Shandong Sacred Sun Power Sources Co.,Ltd
 Add.1,Shengyang Road,Qufu 273100 Shandong,China
 Tel:+86-537-4438666 extn 6028 Fax: +86-537-4411936
 Web: <http://www.abtbatt.com> Email: sales@abtbatt.com

ABT VRLA Battery: Available power range from 7Ah to 3000Ah.

Copy right SACRED SUN,
 all rights reserved.
 (Edition: May,2011)