

**GFMJ-200**  
2V200Ah(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	171mm	6.73inch
Width	107mm	4.21inch
Height	334mm	13.15inch
Total Height	344mm	13.54inch
Approx.Weight	14.8kg	32.6lbs

Type of material for container and lids:

ABS Standard (FV0 Optional)

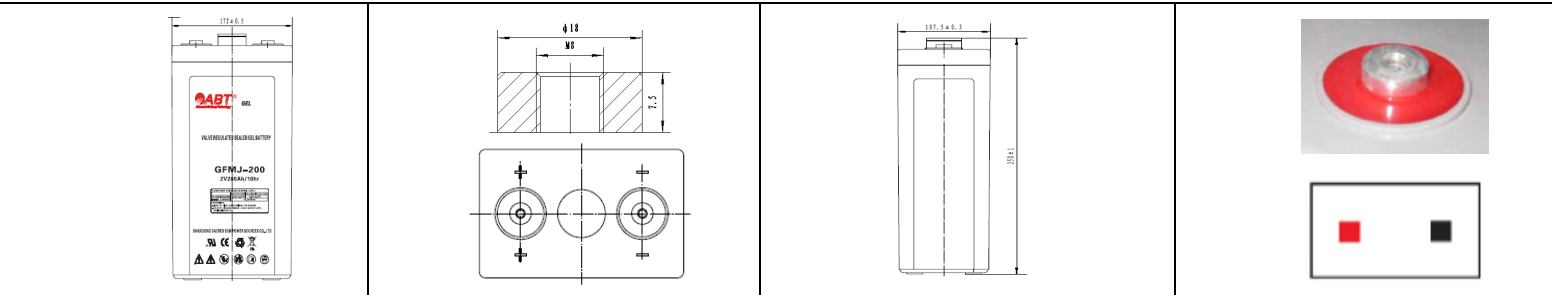
**Product Characteristics**

- 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 (20A, 1.80V) 200Ah
  - 5h rate (35A, 1.80V) 175Ah
  - 1h rate (112A, 1.80V) 112Ah
- Internal resistance:
  - 0.68mΩ when fully charged at 68°F (20°C)
- Average self discharge rate:
  - ≤2% per month 68°F (20°C)
- Maximum discharge current:
  - 1748A(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: 40A
  - Temperature compensation: -3.5mV/°C/piece
  - Cycle use: 2.33-2.37V/ piece
  - Standby use: 2.23-2.27V/ piece

**Dimensions/Terminal**



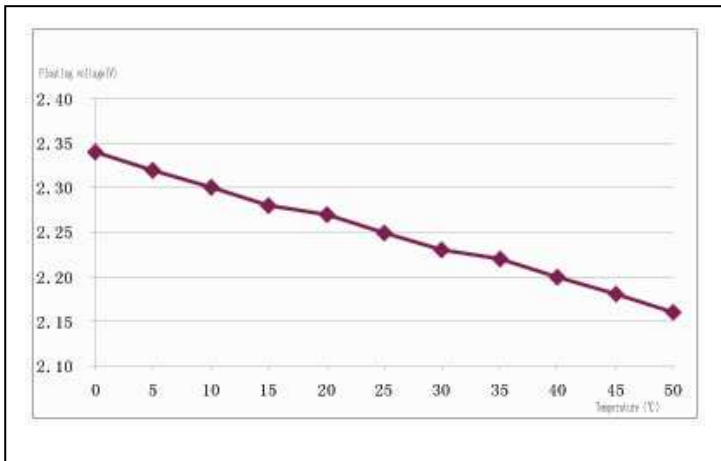
**Constant Current Discharge Data (Ampere at 20°C/68 °F)**

End Volt	5min	10min	15min	20min	30min	1h	2h	3h	5h	6h	8h	10h	20h	24h	48h	100h	120h	240h
1.65	340	310	288	260	202	125	75	55	38	34	26.6	22.5	11.3	9.24	4.86	2.50	2.18	1.16
1.70	320	295	260	227	190	123	73.7	54.4	37.1	32.2	25.8	21.3	11.1	9.24	4.86	2.50	2.18	1.16
1.75	300	279	248	219	184	121	72.3	53.6	36.4	31.7	25.3	20.9	11	9.24	4.86	2.50	2.18	1.16
1.80	280	265	229	202	170	112	69.4	51.2	35	30.5	24.3	20.0	10.8	9.24	4.86	2.50	2.18	1.16
1.85	240	229	209	189	159	108	65.3	48	32.9	28.6	22.8	18.9	10.2	8.80	4.86	2.50	2.18	1.16

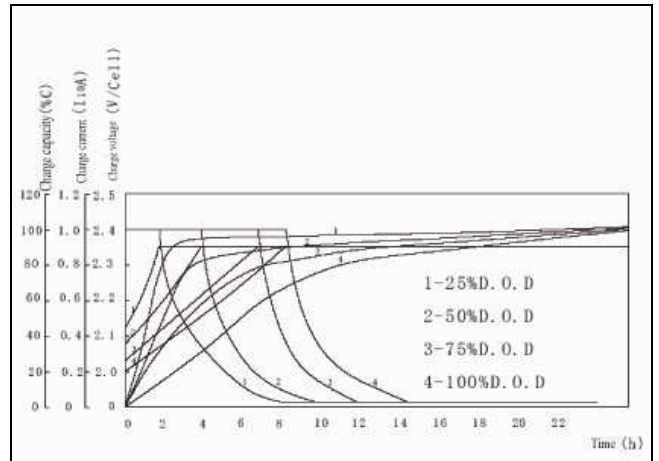
**Constant Power Discharge Data (Watts per cell at 20°C/68 °F)**

End Volt	5min	10min	15min	20min	30min	1h	2h	3h	5h	6h	8h	10h	20h	24h	48h	100h	120h	240h
1.65	594	551	518	471	369	232	140	104	72	50.1	40.0	33.0	18.30	16.9	9.72	5.00	4.40	2.34
1.70	569	534	475	418	351	230	139	104	71	48.6	38.5	31.9	18.30	16.7	9.72	5.00	4.40	2.34
1.75	547	515	462	410	346	229	138	103	70	46.9	37.2	30.7	18.30	16.5	9.72	5.00	4.40	2.34
1.80	523	498	434	383	325	214	135	99	68	45.2	35.8	30.0	18.30	16.1	9.72	5.00	4.40	2.34
1.85	458	439	402	366	309	211	128	94	65	42.9	34.1	28.3	17.60	15.3	9.72	5.00	4.40	2.34

**Floating Charge Voltage Vs Temperature**



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



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

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