



GEL Technology
GFMJ Series

Complying standards:

IEC60896-21/22: 2004
DIN43539-T5
IEC61427-2014

GFMJ-2000
2V2000Ah(10hr)



ABT-GFMJ is valve regulated batteries with Positive Flat Plates, incorporate imported key raw material and utilize the imported crucial gel-specialized manufacture equipment 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 telecommunications, 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	308.0lbs

Type of material for container and lids:

ABS Standard (FV0 Optional)

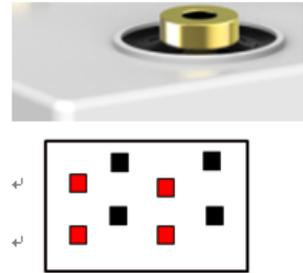
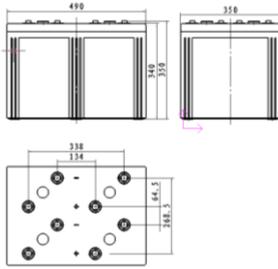
Product Characteristics

- 18 years life expectancy in float service at 68°F (20°C)
- Very long life according to EUROBAT Classification
- High discharge performance
- High gas recombination efficiency
- Maximum charge efficiency
- GEL state electrolyte prevents leakage and layering
- Low resistance PVC-SiO2 micro-porous separator ensure Low self-discharge rate
- Easy installation and handling

Performance Characteristics

- Rated voltage: 2V (1 cell)
- Rated capacity at 68°F (20°C)
 - 10h rate (200A, 1.80V) 2000Ah
 - 5h rate (350A, 1.80V) 1750Ah
 - 1h rate (1120A, 1.80V) 1120Ah
- Internal resistance:
 - 0.120mΩ when fully charged at 68°F (20°C)
- Average self-discharge rate:
 - ≤2% per month 68°F (20°C)
- Maximum discharge current:
 - 11040A(5s) 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: 2.35V/ piece
 - Standby use: 2.24V/ piece

Dimensions/Terminal



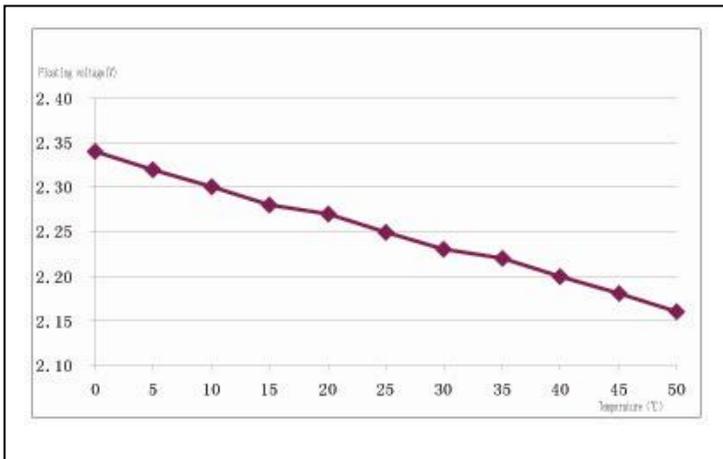
Constant Current Discharge Data (Ampere at 20°C/68 °F)

End Volt	5min	10min	15min	20min	30min	1h	2h	3h	5h	6h	8h	10h	20h	24h	48h	100h	120h	240h
1.65	3400	3100	2880	2600	2020	1250	750	550	380	340.00	266.00	225.00	113.00	95.40	48.60	25.00	21.80	11.60
1.70	3200	2950	2600	2270	1900	1230	737	544	371	322.00	258.00	213.00	111.00	95.00	48.60	25.00	21.80	11.60
1.75	3000	2790	2480	2190	1840	1210	723	536	364	317.00	253.00	209.00	110.00	94.30	48.60	25.00	21.80	11.60
1.80	2800	2650	2290	2020	1700	1120	694	512	350	305.00	243.00	200.00	108.00	93.70	48.60	25.00	21.80	11.60
1.85	2400	2290	2090	1890	1590	1080	653.0	480.0	329.0	286.00	228.00	189.00	102.00	93.00	48.60	25.00	21.80	11.60

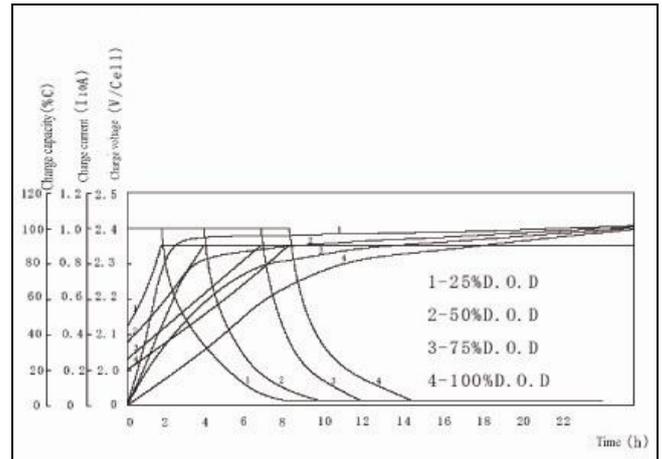
Constant Power Discharge Data (Watts per cell at 20°C/68 °F)

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	501.00	400.00	330.00	169.00	165.00	97.20	50.00	44.00	23.40
1.70	5690	5340	4750	4180	3510	2300	1390	1040	710	486.00	385.00	319.00	167.00	163.50	97.20	50.00	44.00	23.40
1.75	5470	5150	4620	4100	3460	2290	1380	1030	700	469.00	372.00	307.00	165.00	162.20	97.20	50.00	44.00	23.40
1.80	5230	4980	4340	3830	3250	2140	1350	990	680	452.00	358.00	300.00	161.00	159.10	97.20	50.00	44.00	23.40
1.85	4580	4390	4020	3660	3090	2110	1280.0	940.0	650.0	429.00	341.00	283.00	153.00	151.60	97.20	50.00	44.00	23.40

Floating Charge Voltage vs. Temperature



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



Contact information

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ABT VRLA Battery: Available power range from 26Ah to 3000Ah.

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