



GEL Technology
GFMJ Series

Complying standards:

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

GFMJ-1200

2V1200Ah(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	346mm	13.62inch
Width	310mm	12.20inch
Height	335mm	13.19inch
Total Height	357mm	14.06inch
Approx. Weight	85.5kg	188.1lbs

Type of material for container and lids:

ABS Standard (FV0 Optional)

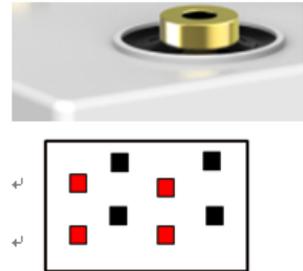
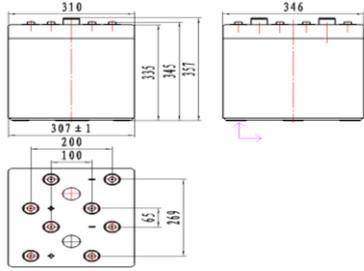
Product Characteristics

- 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 (120A, 1.80V) 1200Ah
 - 5h rate (210A, 1.80V) 1050Ah
 - 1h rate (672A, 1.80V) 672Ah
- Internal resistance:
 - 0.165mΩ when fully charged at 68°F (20°C)
- Average self-discharge rate:
 - ≤2% per month 68°F (20°C)
- Maximum discharge current:
 - 7200A(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: 240A
 - Temperature compensation: -3.5mV/°C/piece
 - Cycle use: 2.35V/ piece
 - Standby use: 2.24V/ piece

Dimensions/Terminal



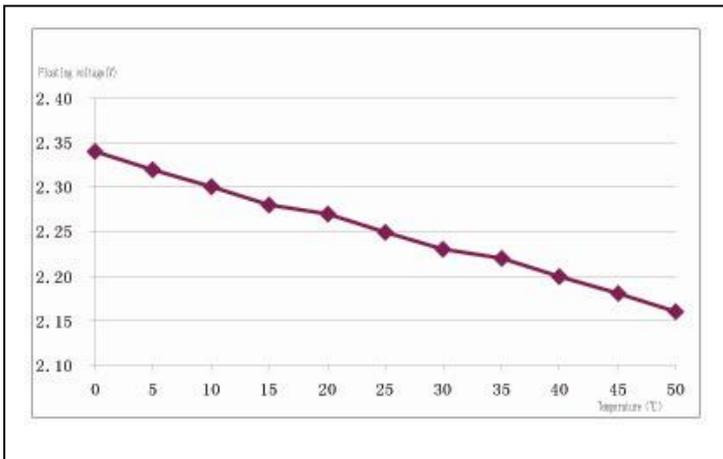
Constant Current Discharge Data (Ampere at 20°C/68 °F)

End Volt	5min	10min	15min	20min	30min	1h	2h	3h	5h	6h	8h	10h	20h	24h	48h	100h	120h	240h
1.65	2040	1860	1728	1560	1212	750	450	330	228	204.00	159.60	135.00	67.80	57.50	29.16	15.00	13.08	6.96
1.70	1920	1770	1560	1362	1140	738	442.2	326.4	222.6	193.20	154.80	127.80	66.60	57.30	29.16	15.00	13.08	6.96
1.75	1800	1674	1488	1314	1104	726	433.8	321.6	218.4	190.20	151.80	125.40	66.00	57.00	29.16	15.00	13.08	6.96
1.80	1680	1590	1374	1212	1020	672	416.4	307.2	210	183.00	145.80	120.00	64.80	56.80	29.16	15.00	13.08	6.96
1.85	1440	1374	1254	1134	954	648	391.8	288.0	197.4	171.60	136.80	113.40	61.20	54.50	29.16	15.00	13.08	6.96

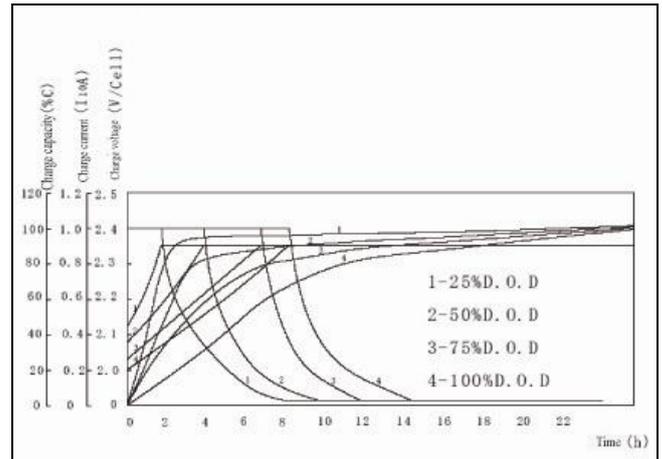
Constant Power Discharge Data (Watts per cell at 20°C/68 °F)

End Volt	5min	10min	15min	20min	30min	1h	2h	3h	5h	6h	8h	10h	20h	24h	48h	100h	120h	240h
1.65	3564	3306	3108	2826	2214	1392	840	624	432	300.60	240.00	198.00	101.40	100.20	58.32	30.00	26.40	14.04
1.70	3414	3204	2850	2508	2106	1380	834	624	426	291.60	231.00	191.40	100.20	99.30	58.32	30.00	26.40	14.04
1.75	3282	3090	2772	2460	2076	1374	828	618	420	281.40	223.20	184.20	99.00	98.10	58.32	30.00	26.40	14.04
1.80	3138	2988	2604	2298	1950	1284	810	594	408	271.20	214.80	180.00	96.60	95.40	58.32	30.00	26.40	14.04
1.85	2748	2634	2412	2196	1854	1266	768.0	564.0	390.0	257.40	204.60	169.80	91.80	90.10	58.32	30.00	26.40	14.04

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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