



GEL Technology  
GFMJ Series

**Complying standards:**

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

**GFMJ-300**  
2V300Ah(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	171mm	6.73inch
Width	151mm	5.95inch
Height	334mm	13.15inch
Total Height	344mm	13.54inch
Approx. Weight	21.3kg	46.86lbs

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**

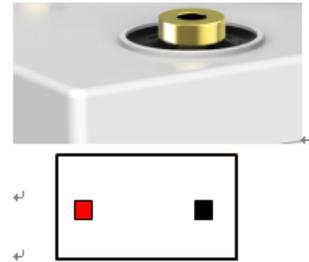
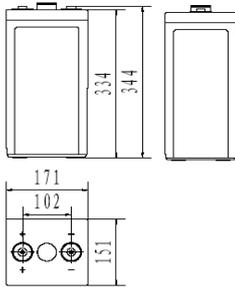
- Rated voltage: 2V (1 cell)
- Rated capacity at 68°F (20°C)
 

10h rate (30A, 1.80V)	300Ah
5h rate (52.5A, 1.80V)	262.5Ah
1h rate (168A, 1.80V)	168Ah
- Internal resistance: 0.54mΩ when fully charged at 68°F (20°C)
- Average self-discharge rate: ≤2% per month 68°F (20°C)
- Maximum discharge current: 1845A(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:	60A
Temperature compensation:	-3.5mV/°C/piece
Cycle use:	2.35V/ piece
Standby use:	2.24V/ piece

**Dimensions/Terminal**



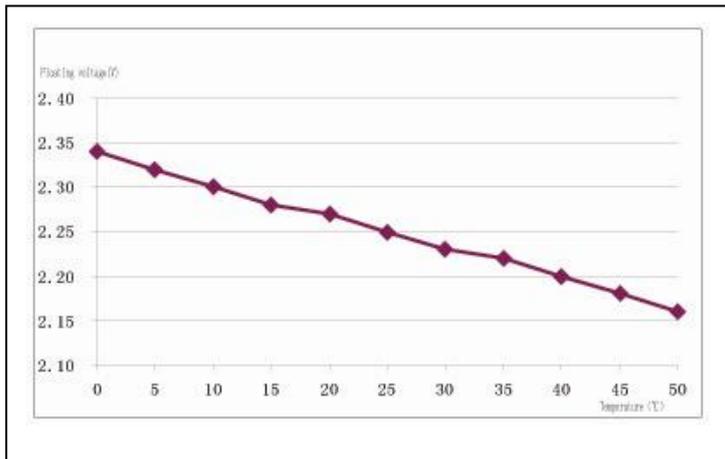
**Constant Current Discharge Data (Ampere at 20°C/68 °F)**

End Volt	5min	10min	15min	20min	30min	1h	2h	3h	5h	6h	8h	10h	20h	24h	48h	100h	120h	240h
1.65	510	465	432	390	303	188	112.5	82.5	57	51.00	39.90	33.75	16.95	14.22	7.29	3.75	3.27	1.74
1.70	480	443	390	341	285	185	110.6	81.6	55.65	48.30	38.70	31.95	16.65	14.05	7.29	3.75	3.27	1.74
1.75	450	419	372	329	276	182	108.5	80.4	54.6	47.55	37.95	31.35	16.50	13.90	7.29	3.75	3.27	1.74
1.80	420	398	344	303	255	168	104.1	76.8	52.5	45.75	36.45	30.00	16.20	13.72	7.29	3.75	3.27	1.74
1.85	360	344	314	284	239	162	98.0	72.0	49.4	42.90	34.20	28.35	15.30	13.20	7.29	3.75	3.27	1.74

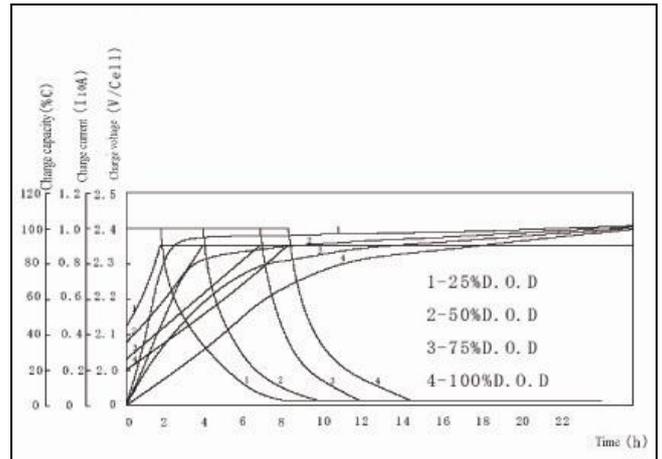
**Constant Power Discharge Data (Watts per cell at 20°C/68 °F)**

End Volt	5min	10min	15min	20min	30min	1h	2h	3h	5h	6h	8h	10h	20h	24h	48h	100h	120h	240h
1.65	891	827	777	707	554	348	210	156	108	75.15	60.00	49.50	25.35	27.45	14.58	7.50	6.60	3.51
1.70	854	801	713	627	527	345	208.5	156	106.5	72.90	57.75	47.85	25.05	27.45	14.58	7.50	6.60	3.51
1.75	821	773	693	615	519	344	207	154.5	105	70.35	55.80	46.05	24.75	27.45	14.58	7.50	6.60	3.51
1.80	785	747	651	575	488	321	202.5	148.5	102	67.80	53.70	45.00	24.15	27.45	14.58	7.50	6.60	3.51
1.85	687	659	603	549	464	317	192.0	141.0	97.5	64.35	51.15	42.45	22.95	26.40	14.58	7.50	6.60	3.51

**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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