



GEL Technology  
GFMJ Series

**Complying standards:**

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

**GFMJ-1500**

2V1500Ah(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	401mm	15.79inch
Width	351mm	13.82inch
Height	340mm	13.39inch
Total Height	350mm	13.78inch
Approx. Weight	107.0kg	235.4lbs

Type of material for container and lids:

ABS Standard (FV0 Optional)

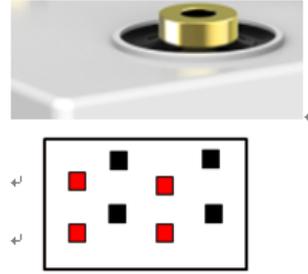
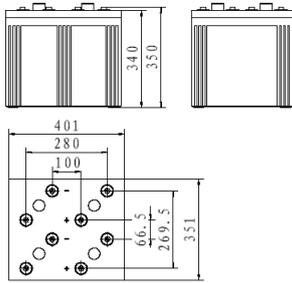
**Product Characteristics**

- 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 (150A, 1.80V) 1500Ah
  - 5h rate (262.5A, 1.80V) 1312.5Ah
  - 1h rate (840A, 1.80V) 840Ah
- Internal resistance:
  - 0.184mΩ when fully charged at 68°F (20°C)
- Average self-discharge rate:
  - ≤2% per month 68°F (20°C)
- Maximum discharge current:
  - 8280A(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: 300A
  - Temperature compensation: -3.5mV/°C/piece
  - Cycle use: 2.35V/ piece
  - Standby use: 2.24V/ piece

**Dimensions/Terminal**



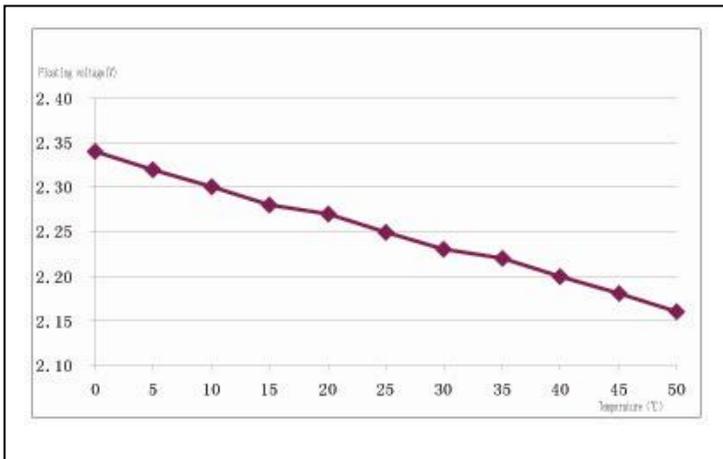
**Constant Current Discharge Data (Ampere at 20°C/68 °F)**

End Volt	5min	10min	15min	20min	30min	1h	2h	3h	5h	6h	8h	10h	20h	24h	48h	100h	120h	240h
1.65	2550	2325	2160	1950	1515	938	562.5	412.5	285	255.00	199.50	168.75	84.75	70.90	36.45	18.75	16.35	8.70
1.70	2400	2213	1950	1703	1425	923	552.8	408	278.3	241.50	193.50	159.75	83.25	70.40	36.45	18.75	16.35	8.70
1.75	2250	2093	1860	1643	1380	908	542.3	402	273	237.75	189.75	156.75	82.50	70.00	36.45	18.75	16.35	8.70
1.80	2100	1988	1718	1515	1275	840	520.5	384	262.5	228.75	182.25	150.00	81.00	69.30	36.45	18.75	16.35	8.70
1.85	1800	1718	1568	1418	1193	810	489.8	360.0	246.8	214.50	171.00	141.75	76.50	66.00	36.45	18.75	16.35	8.70

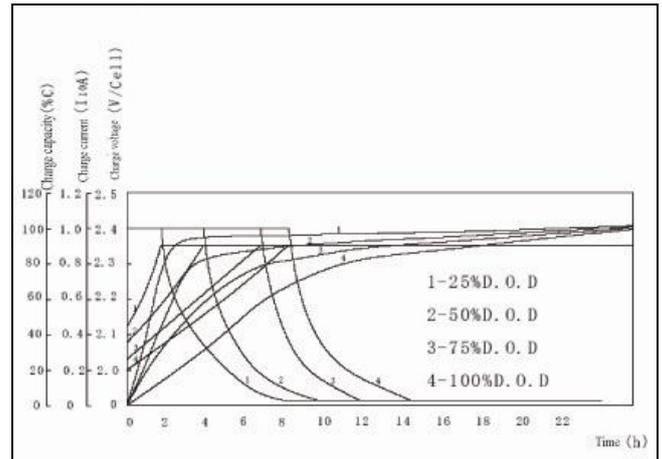
**Constant Power Discharge Data (Watts per cell at 20°C/68 °F)**

End Volt	5min	10min	15min	20min	30min	1h	2h	3h	5h	6h	8h	10h	20h	24h	48h	100h	120h	240h
1.65	4455	4133	3885	3533	2768	1740	1050	780	540	375.75	300.00	247.50	126.75	119.30	72.90	37.50	33.00	17.55
1.70	4268	4005	3563	3135	2633	1725	1042.5	780	532.5	364.50	288.75	239.25	125.25	119.00	72.90	37.50	33.00	17.55
1.75	4103	3863	3465	3075	2595	1718	1035	772.5	525	351.75	279.00	230.25	123.75	118.50	72.90	37.50	33.00	17.55
1.80	3923	3735	3255	2873	2438	1605	1012.5	742.5	510	339.00	268.50	225.00	120.75	116.90	72.90	37.50	33.00	17.55
1.85	3435	3293	3015	2745	2318	1583	960.0	705.0	487.5	321.75	255.75	212.25	114.75	113.00	72.90	37.50	33.00	17.55

**Floating Charge Voltage vs. Temperature**



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



Contact information

Advanced Battery Technology BV  
 Add. New Yorkstraat 14 1175 RD Lijnden Amsterdam, Netherland  
 Web: <http://www.abtbatt.com> Email: sales@abtbatt.com

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

Copy right ABT BV,  
 all rights reserved.  
 (Edition: Aug.,2016)