



GEL Technology  
GFMJ Series

**Complying standards:**

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

**GFMJ-600**  
2V600Ah(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**

**Performance Characteristics**

	SI Unit	EN Unit
Length	302mm	11.89inch
Width	177mm	6.97inch
Height	334mm	13.15inch
Total Height	344mm	13.54inch
Approx. Weight	44.0kg	96.8lbs

- Rated voltage: 2V (1 cell)
- Rated capacity at 68°F (20°C)
  - 10h rate (60A, 1.80V) 600Ah
  - 5h rate (105A, 1.80V) 525Ah
  - 1h rate (336A, 1.80V) 336Ah
- Internal resistance:
  - 0.33mΩ when fully charged at 68°F (20°C)
- Average self-discharge rate:
  - ≤2% per month 68°F (20°C)
- Maximum discharge current:
  - 3312A(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: 120A
  - Temperature compensation: -3.5mV/°C/piece
  - Cycle use: 2.35V/ piece
  - Standby use: 2.24V/ piece

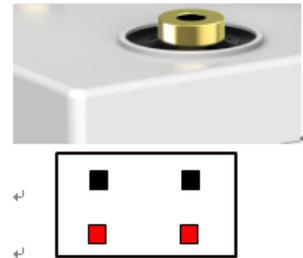
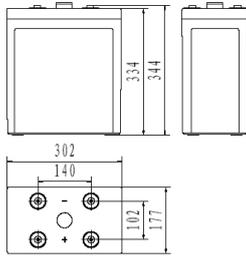
Type of material for container and lids:

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

**Dimensions/Terminal**



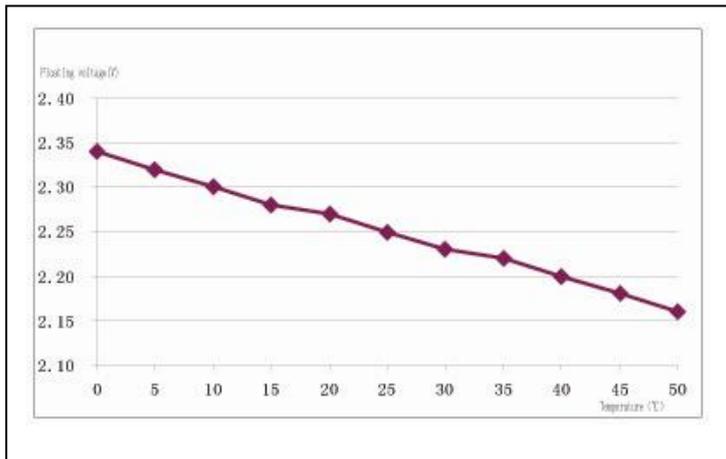
**Constant Current Discharge Data (Ampere at 20°C/68 °F)**

End Volt	5min	10min	15min	20min	30min	1h	2h	3h	5h	6h	8h	10h	20h	24h	48h	100h	120h	240h
1.65	1020	930	864	780	606	375	225	165	114	102.00	79.80	67.50	33.90	27.72	14.58	7.50	6.54	3.48
1.70	960	885	780	681	570	369	221.1	163.2	111.3	96.60	77.40	63.90	33.30	27.72	14.58	7.50	6.54	3.48
1.75	900	837	744	657	552	363	216.9	160.8	109.2	95.10	75.90	62.70	33.00	27.72	14.58	7.50	6.54	3.48
1.80	840	795	687	606	510	336	208.2	153.6	105	91.50	72.90	60.00	32.40	27.72	14.58	7.50	6.54	3.48
1.85	720	687	627	567	477	324	195.9	144.0	98.7	85.80	68.40	56.70	30.60	26.40	14.58	7.50	6.54	3.48

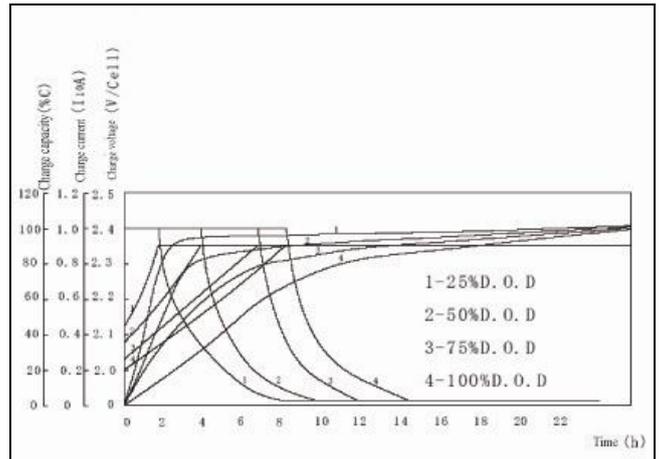
**Constant Power Discharge Data (Watts per cell at 20°C/68 °F)**

End Volt	5min	10min	15min	20min	30min	1h	2h	3h	5h	6h	8h	10h	20h	24h	48h	100h	120h	240h
1.65	1782	1653	1554	1413	1107	696	420	312	216	150.00	120.00	99.00	50.70	48.70	29.16	15.00	13.20	7.02
1.70	1707	1602	1425	1254	1053	690	417	312	213	146.00	116.00	95.70	50.10	48.10	29.16	15.00	13.20	7.02
1.75	1641	1545	1386	1230	1038	687	414	309	210	141.00	112.00	92.10	49.50	47.50	29.16	15.00	13.20	7.02
1.80	1569	1494	1302	1149	975	642	405	297	204	136.00	107.00	90.00	48.30	46.50	29.16	15.00	13.20	7.02
1.85	1374	1317	1206	1098	927	633	384.0	282.0	195.0	129.00	102.00	84.90	45.90	44.50	29.16	15.00	13.20	7.02

**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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