



GEL Technology
GFMJ Series

Complying standards:

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

GFMJ-500
2V500Ah(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	243mm	9.57inch
Width	174mm	6.85inch
Height	334mm	13.15inch
Total Height	344mm	13.54inch
Approx. Weight	35.5kg	78.3lbs

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

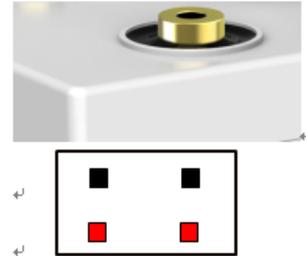
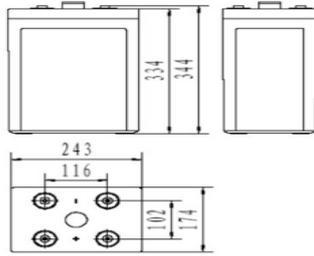
- Rated voltage: 2V (1 cell)
- Rated capacity at 68°F (20°C)

10h rate (50A, 1.80V)	500Ah
5h rate (87.5A, 1.80V)	437.5Ah
1h rate (280A, 1.80V)	280Ah
- Internal resistance: 0.39mΩ when fully charged at 68°F (20°C)
- Average self-discharge rate: ≤2% per month 68°F (20°C)
- Maximum discharge current: 2944A(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:	100A
Temperature compensation:	-3.5mV/°C/piece
Cycle use:	2.35V/ piece
Standby use:	2.24V/ piece

Dimensions/Terminal



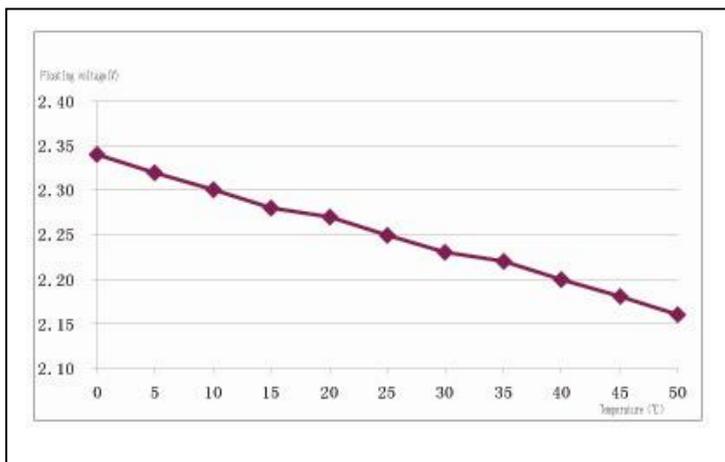
Constant Current Discharge Data (Ampere at 20°C/68 °F)

End Volt	5min	10min	15min	20min	30min	1h	2h	3h	5h	6h	8h	10h	20h	24h	48h	100h	120h	240h
1.65	850	775	720	650	505	312.5	187.5	137.5	95	85	66.5	56.25	28.25	23.1	12.15	6.25	5.45	2.9
1.70	800	737.5	650	567.5	475	307.5	184.25	136	92.75	80.5	64.5	53.25	27.75	23.1	12.15	6.25	5.45	2.9
1.75	750	697.5	620	547.5	460	302.5	180.75	134	91	79.25	63.25	52.25	27.5	23.1	12.15	6.25	5.45	2.9
1.80	700	662.5	572.5	505	425	280	173.5	128	87.5	76.25	60.75	50.00	27.0	23.1	12.15	6.25	5.45	2.9
1.85	600	572.5	522.5	472.5	397.5	270	163.25	120	82.25	71.5	57.0	47.25	25.5	22.0	12.15	6.25	5.45	2.9

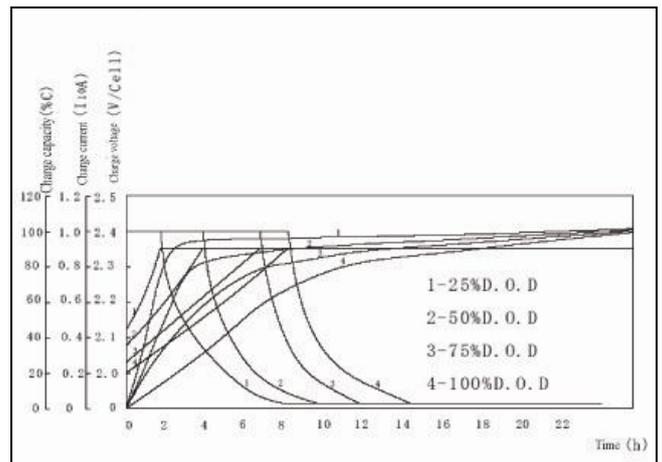
Constant Power Discharge Data (Watts per cell at 20°C/68 °F)

End Volt	5min	10min	15min	20min	30min	1h	2h	3h	5h	6h	8h	10h	20h	24h	48h	100h	120h	240h
1.65	1485	1377.5	1295	1177.5	922.5	580	350	260	180	125.25	100	82.5	45.75	42.25	24.3	12.5	11	5.85
1.70	1422.5	1335	1187.5	1045	877.5	575	347.5	260	177.5	121.5	96.25	79.75	45.75	41.75	24.3	12.5	11	5.85
1.75	1367.5	1287.5	1155	1025	865	572.5	345	257.5	175	117.25	93.0	76.75	45.75	41.25	24.3	12.5	11	5.85
1.80	1307.5	1245	1085	957.5	812.5	535	337.5	247.5	170	113.0	89.5	75.00	45.75	40.25	24.3	12.5	11	5.85
1.85	1145	1097.5	1005	915	772.5	527.5	320	235	162.5	107.25	85.25	70.75	44.00	38.25	24.3	12.5	11	5.85

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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