



GEL Technology
GFMJ Series

Complying standards:

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

GFMJ-1000

2V1000Ah(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	478mm	18.82inch
Width	175mm	6.89inch
Height	334mm	13.15inch
Total Height	344mm	13.54inch
Approx. Weight	71.0kg	156.2lbs

Type of material for container and lids:

ABS Standard (FV0 Optional)

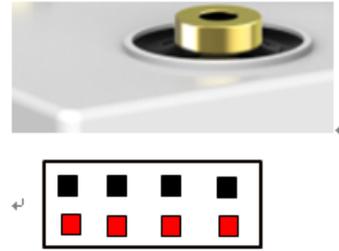
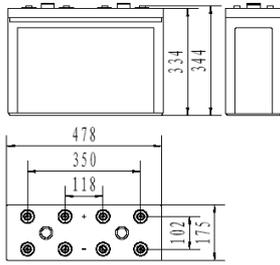
Product Characteristics

- 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 (100A, 1.80V) 1000Ah
 - 5h rate (175A, 1.80V) 875Ah
 - 1h rate (560A, 1.80V) 560Ah
- Internal resistance:
 - 0.24mΩ when fully charged at 68°F (20°C)
- Average self-discharge rate:
 - ≤2% per month 68°F (20°C)
- Maximum discharge current:
 - 5520A(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: 200A
 - Temperature compensation: -3.5mV/°C/piece
 - Cycle use: 2.35V/ piece
 - Standby use: 2.24V/ piece

Dimensions/Terminal



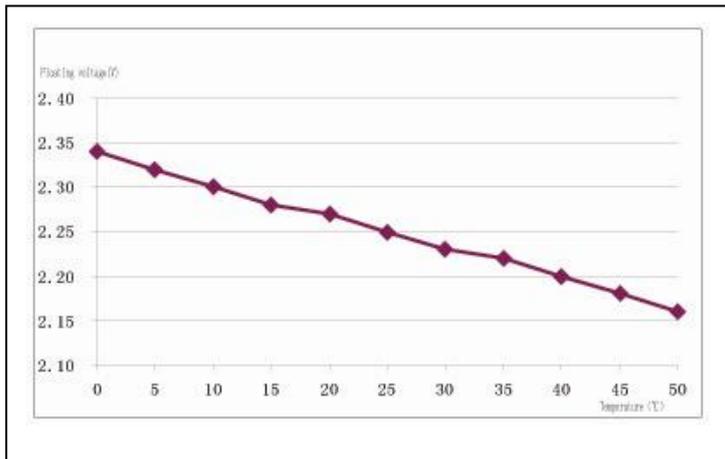
Constant Current Discharge Data (Ampere at 20°C/68 °F)

End Volt	5min	10min	15min	20min	30min	1h	2h	3h	5h	6h	8h	10h	20h	24h	48h	100h	120h	240h
1.65	1700	1550	1440	1300	1010	625	375	275	190	170.00	133.00	112.50	56.50	47.80	24.30	12.50	10.90	5.80
1.70	1600	1475	1300	1135	950	615	368.5	272	185.5	161.00	129.00	106.50	55.50	47.40	24.30	12.50	10.90	5.80
1.75	1500	1395	1240	1095	920	605	361.5	268	182	158.50	126.50	104.50	55.00	47.10	24.30	12.50	10.90	5.80
1.80	1400	1325	1145	1010	850	560	347	256	175	152.50	121.50	100.00	54.00	46.80	24.30	12.50	10.90	5.80
1.85	1200	1145	1045	945	795	540	326.5	240.0	164.5	143.00	114.00	94.50	51.00	46.50	24.30	12.50	10.90	5.80

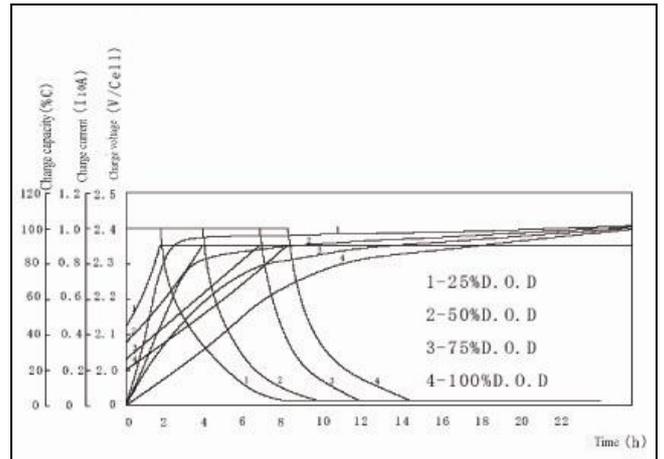
Constant Power Discharge Data (Watts per cell at 20°C/68 °F)

End Volt	5min	10min	15min	20min	30min	1h	2h	3h	5h	6h	8h	10h	20h	24h	48h	100h	120h	240h
1.65	2970	2755	2590	2355	1845	1160	700	520	360	251.00	200.00	165.00	84.50	91.50	48.60	25.00	22.00	11.70
1.70	2845	2670	2375	2090	1755	1150	695	520	355	243.00	193.00	160.00	83.50	91.50	48.60	25.00	22.00	11.70
1.75	2735	2575	2310	2050	1730	1145	690	515	350	235.00	186.00	154.00	82.50	91.50	48.60	25.00	22.00	11.70
1.80	2615	2490	2170	1915	1625	1070	675	495	340	226.00	179.00	150.00	80.50	91.50	48.60	25.00	22.00	11.70
1.85	2290	2195	2010	1830	1545	1055	640.0	470.0	325.0	215.00	171.00	142.00	76.50	88.00	48.60	25.00	22.00	11.70

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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