



GEL Technology
GFMJ Series

Complying standards:

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

GFMJ-800

2V800Ah(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	410mm	16.14inch
Width	175mm	6.89inch
Height	334mm	13.15inch
Total Height	344mm	13.54inch
Approx. Weight	60.0kg	132.0lbs

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

10h rate (80A, 1.80V)	800Ah
5h rate (140A, 1.80V)	700Ah
1h rate (448A, 1.80V)	448Ah
- Internal resistance: 0.28mΩ when fully charged at 68°F (20°C)
- Average self-discharge rate: ≤2% per month 68°F (20°C)
- Maximum discharge current: 4417A(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)

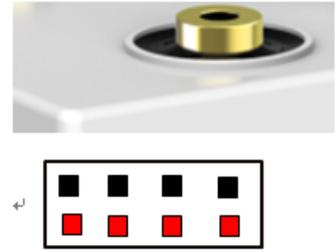
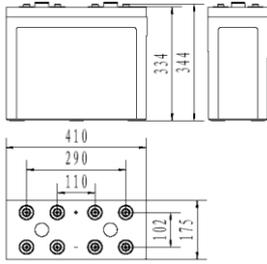
Maximum charge current:	160A
Temperature compensation:	-3.5mV/°C/piece
Cycle use:	2.35V/ piece
Standby use:	2.24V/ piece

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



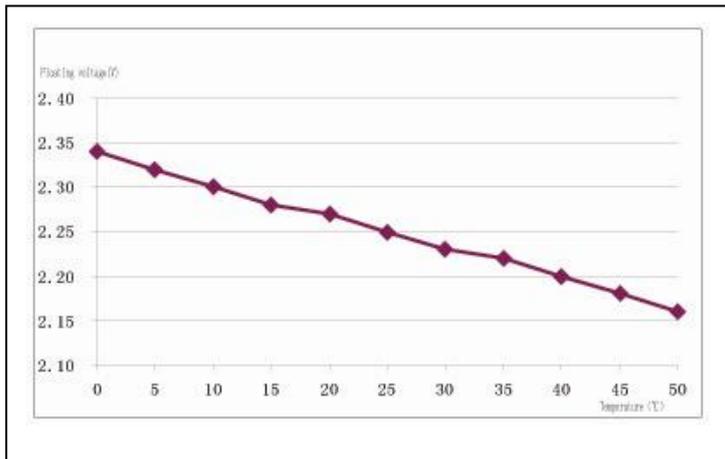
Constant Current Discharge Data (Ampere at 20°C/68 °F)

End Volt	5min	10min	15min	20min	30min	1h	2h	3h	5h	6h	8h	10h	20h	24h	48h	100h	120h	240h
1.65	1360	1240	1152	1040	808	500	300	220	152	136.00	106.40	90.00	45.20	38.35	19.44	10.00	8.72	4.64
1.70	1280	1180	1040	908	760	492	294.8	217.6	148.4	128.80	103.20	85.20	44.40	38.00	19.44	10.00	8.72	4.64
1.75	1200	1116	992	876	736	484	289.2	214.4	145.6	126.80	101.20	83.60	44.00	37.40	19.44	10.00	8.72	4.64
1.80	1120	1060	916	808	680	448	277.6	204.8	140	122.00	97.20	80.00	43.20	36.96	19.44	10.00	8.72	4.64
1.85	960	916	836	756	636	432	261.2	192.0	131.6	114.40	91.20	75.60	40.80	36.25	19.44	10.00	8.72	4.64

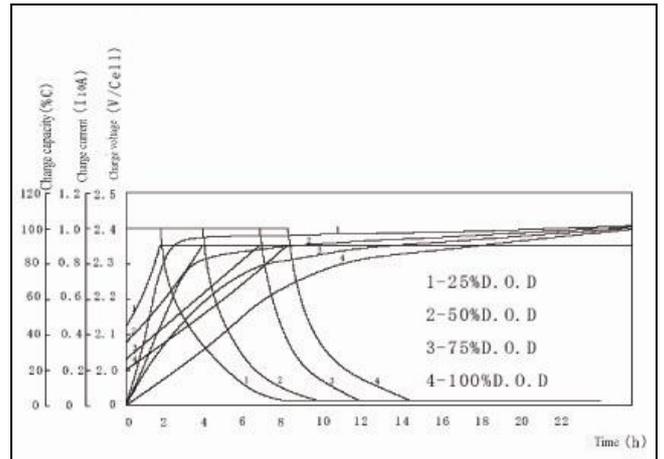
Constant Power Discharge Data (Watts per cell at 20°C/68 °F)

End Volt	5min	10min	15min	20min	30min	1h	2h	3h	5h	6h	8h	10h	20h	24h	48h	100h	120h	240h
1.65	2376	2204	2072	1884	1476	928	560	416	288	200.00	160.00	132.00	67.60	63.40	38.88	20.00	17.60	9.36
1.70	2276	2136	1900	1672	1404	920	556	416	284	194.00	154.00	128.00	66.80	63.00	38.88	20.00	17.60	9.36
1.75	2188	2060	1848	1640	1384	916	552	412	280	188.00	149.00	123.00	66.00	62.40	38.88	20.00	17.60	9.36
1.80	2092	1992	1736	1532	1300	856	540	396	272	181.00	143.00	120.00	64.40	61.80	38.88	20.00	17.60	9.36
1.85	1832	1756	1608	1464	1236	844	512.0	376.0	260.0	172.00	136.00	113.00	61.20	60.70	38.88	20.00	17.60	9.36

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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