



GEL Technology
GFMJ Series

Complying standards:

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

GFMJ-400
2V400Ah(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	211mm	8.31inch
Width	17mm	6.89inch
Height	334mm	13.15inch
Total Height	344mm	13.54inch
Approx. Weight	30.0kg	66.0lbs

Type of material for container and lids:
ABS Standard (FV0 Optional)

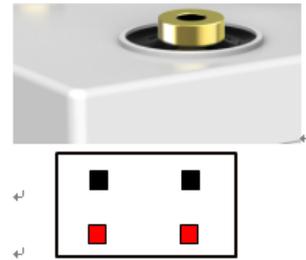
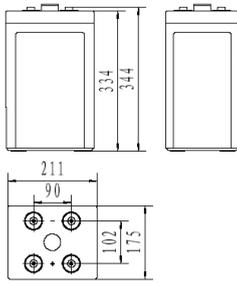
Product Characteristics

- 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 (40A, 1.80V) 400Ah
 - 5h rate (70A, 1.80V) 350Ah
 - 1h rate (224A, 1.80V) 224Ah
- Internal resistance:
 - 0.45mΩ when fully charged at 68°F (20°C)
- Average self-discharge rate:
 - ≤2% per month 68°F (20°C)
- Maximum discharge current:
 - 2576A(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: 80A
 - Temperature compensation: -3.5mV/°C/piece
 - Cycle use: 2.35V/ piece
 - Standby use: 2.24V/ piece

Dimensions/Terminal



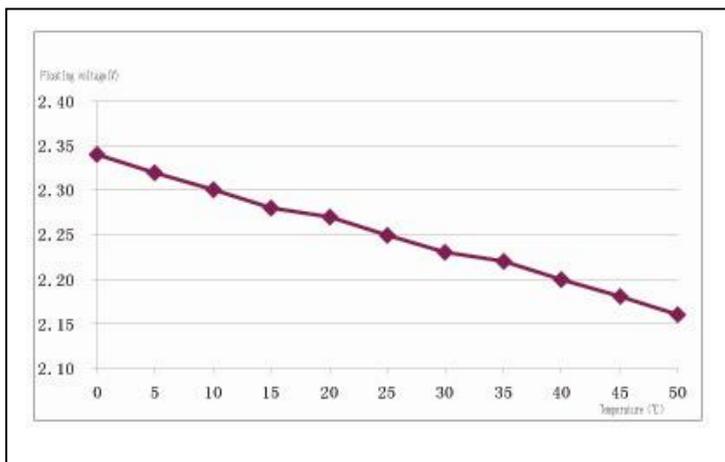
Constant Current Discharge Data (Ampere at 20°C/68 °F)

End Volt	5min	10min	15min	20min	30min	1h	2h	3h	5h	6h	8h	10h	20h	24h	48h	100h	120h	240h
1.65	680	620	576	520	404	250	150	110	76	68.00	53.20	45.00	22.60	19.02	9.72	5.00	4.36	2.32
1.70	640	590	520	454	380	246	147.4	108.8	74.2	64.40	51.60	42.60	22.20	18.68	9.72	5.00	4.36	2.32
1.75	600	558	496	438	368	242	144.6	107.2	72.8	63.40	50.60	41.80	22.00	18.58	9.72	5.00	4.36	2.32
1.80	560	530	458	404	340	224	138.8	102.4	70	61.00	48.60	40.00	21.60	18.43	9.72	5.00	4.36	2.32
1.85	480	458	418	378	318	216	130.6	96.0	65.8	57.20	45.60	37.80	20.40	17.60	9.72	5.00	4.36	2.32

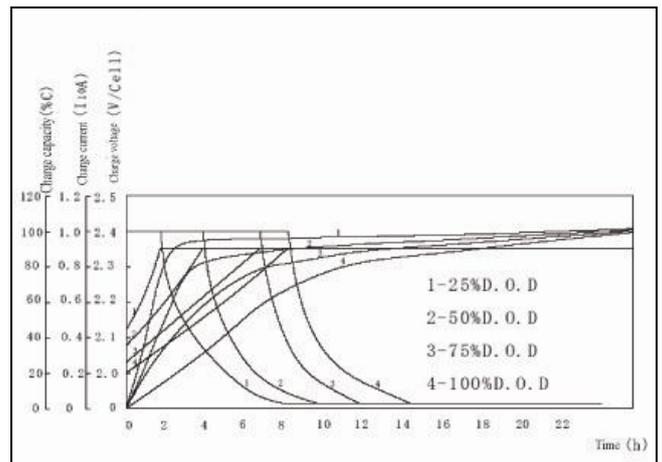
Constant Power Discharge Data (Watts per cell at 20°C/68 °F)

End Volt	5min	10min	15min	20min	30min	1h	2h	3h	5h	6h	8h	10h	20h	24h	48h	100h	120h	240h
1.65	1188	1102	1036	942	738	464	280	208	144	100.20	80.00	66.00	33.80	30.60	19.44	10.00	8.80	4.68
1.70	1138	1068	950	836	702	460	278	208	142	97.20	77.00	63.80	33.40	29.80	19.44	10.00	8.80	4.68
1.75	1094	1030	924	820	692	458	276	206	140	93.80	74.40	61.40	33.00	29.20	19.44	10.00	8.80	4.68
1.80	1046	996	868	766	650	428	270	198	136	90.40	71.60	60.00	32.20	28.90	19.44	10.00	8.80	4.68
1.85	916	878	804	732	618	422	256.0	188.0	130.0	85.80	68.20	56.60	30.60	28.30	19.44	10.00	8.80	4.68

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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 (Edition: Aug.,2016)