



GEL Technology
GFMJ Series

Complying standards:

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

6FMJ-150

12V150Ah(10hr)



ABT-GFMJ introduce VRLA battery Gel technology, gel electrolyte design, Thick positive Flat plate technology and patent gel electrolyte compounding and filling technique guarantee battery long service life and super high reliability. They are widely used in telecommunication, power supply system, energy storage, UPS and EPS system, etc.

Mechanical Characteristics

	SI Unit	EN Unit
Length	513mm	20.20inch
Width	232mm	9.12inch
Height	218mm	8.58inch
Total Height	228mm	8.98inch
Approx. Weight	59.0kg	129.8lbs

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

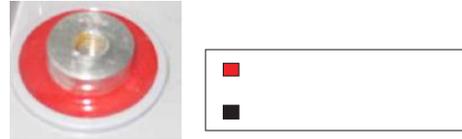
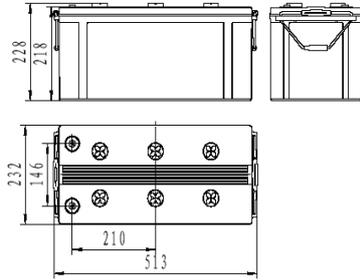
Product Characteristics

- 12 years life expectancy in float service at 68°F (20°C)
- 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: 12V (6 cells)
- Rated capacity at 68°F (20°C)
 - 10h rate (15.0A, 10.8V) 150Ah
 - 5h rate (25.5A, 10.8V) 127.5Ah
 - 1h rate (80.7A, 10.8V) 80.7Ah
- Internal resistance:
 - 3.55mΩ when fully charged at 68°F (20°C)
- Average self-discharge rate:
 - ≤2% per month 68°F (20°C)
- Maximum discharge current:
 - 1472A(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: 30A
 - Temperature compensation: -21mV/°C/piece
 - Cycle use: 14.10V/ piece
 - Standby use: 13.44V/ piece

Dimensions/Terminal



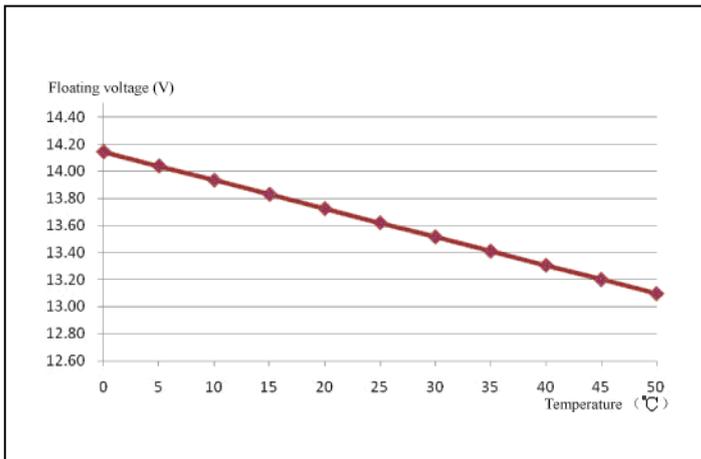
Constant Current Discharge Data (Ampere at 20°C/68 °F)

End Volt	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	100h	120h	240h
1.60	234	150.0	105.0	88.4	67.4	52.6	41.0	32.9	27.9	25.4	19.7	16.4	8.46	7.14	3.56	1.71	1.64	0.86
1.65	227	147.0	103.0	86.7	66.0	51.5	40.2	32.2	27.4	24.9	19.3	16.1	8.28	7.01	3.48	1.70	1.62	0.84
1.70	220	144.0	101.0	84.9	64.7	50.6	39.4	31.5	26.8	24.5	18.9	15.8	8.12	6.87	3.44	1.68	1.61	0.83
1.75	214	141.0	98.3	83.3	63.4	49.5	38.6	30.9	26.3	24.0	18.6	15.5	7.97	6.74	3.38	1.67	1.59	0.81
1.80	203	137.0	95.5	80.7	61.5	48.0	37.5	30.0	25.5	23.3	18.0	15.0	7.80	6.60	3.33	1.65	1.58	0.80

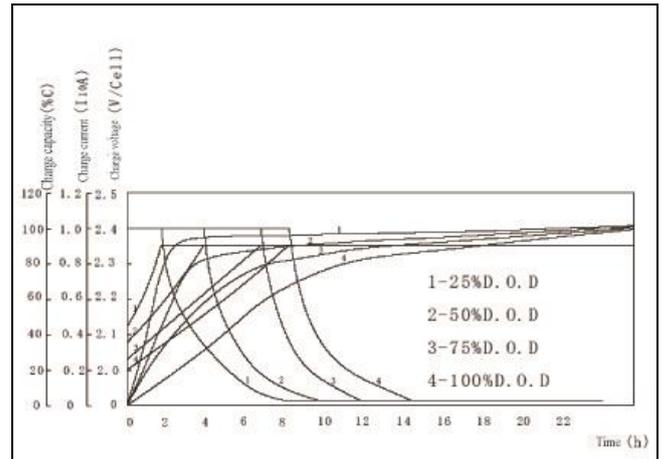
Constant Power Discharge Data (Watts per cell at 20°C/68 °F)

End Volt	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	100h	120h	240h
1.60	407	262	183	156	119	92.6	73.5	59.8	51.1	46.3	36.3	30.6	16.2	13.9	6.97	3.40	3.27	1.73
1.65	399	260	181	154	118	92.3	73.2	59.2	50.6	46.1	35.9	30.4	16.1	13.7	6.89	3.39	3.26	1.71
1.70	392	258	180	153	117	92.0	72.5	58.4	50.2	46.0	35.8	30.3	15.9	13.7	6.84	3.38	3.24	1.68
1.75	387	257	179	152	117	91.6	71.8	57.8	49.6	45.8	35.6	30.1	15.7	13.5	6.75	3.36	3.23	1.66
1.80	377	253	177	150	116	91.2	71.3	57.3	49.2	45.3	35.3	29.7	15.6	13.3	6.69	3.35	3.21	1.64

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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