



GEL Technology
GFMJ Series

Complying standards:

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

6FMJ-200

12V200Ah(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	296.5mm	11.67inch
Height	218mm	8.58inch
Total Height	228mm	8.98inch
Approx. Weight	75.5kg	166.1lbs

Type of material for container and lids:

ABS Standard (FV0 Optional)

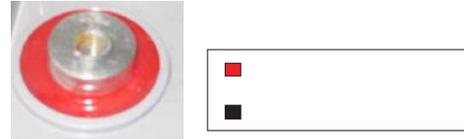
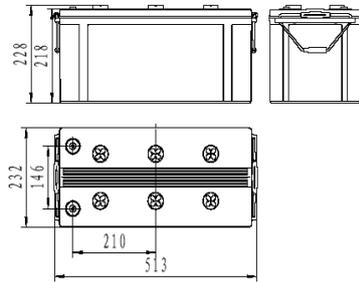
Product Characteristics

- 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 (20.0A, 10.8V) 200Ah
 - 5h rate (34.0A, 10.8V) 170Ah
 - 1h rate (108A, 10.8V) 108Ah
- Internal resistance:
 - 3.11mΩ when fully charged at 68°F (20°C)
- Average self-discharge rate:
 - ≤2% per month 68°F (20°C)
- Maximum discharge current:
 - 1702A(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: 40A
 - Temperature compensation: -21mV/°C/piece
 - Cycle use: 14.10V/ piece
 - Standby use: 13.44V/ piece

Dimensions/Terminal



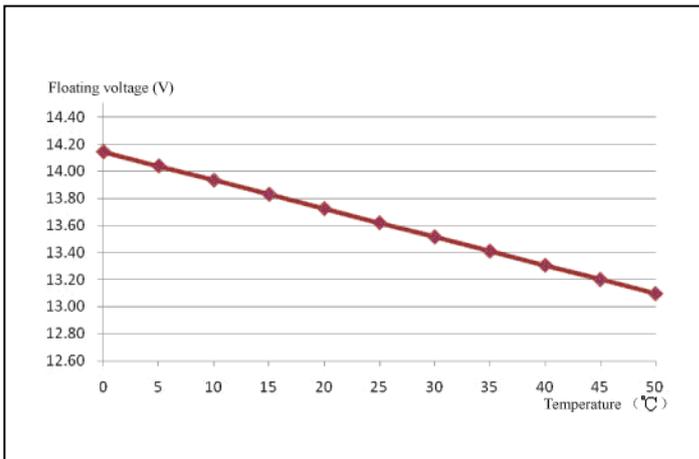
Constant Current Discharge Data (Ampere at 20°C/68 °F)

End Volt	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	100h	120h	240h
1.60	312	200.0	140.0	118.0	89.8	70.1	54.7	43.8	37.2	33.9	26.3	21.9	11.3	9.52	4.74	2.28	2.18	1.14
1.65	303	196.0	137.0	116.0	88.0	68.7	53.6	42.9	36.5	33.3	25.8	21.5	11.0	9.34	4.64	2.26	2.16	1.12
1.70	293	192.0	134.0	113.0	86.3	67.4	52.5	42.1	35.8	32.6	25.2	21.0	10.8	9.16	4.58	2.24	2.14	1.10
1.75	285	188.0	131.0	111.0	84.5	66.0	51.4	41.2	35.0	31.9	24.7	20.6	10.6	8.98	4.50	2.22	2.12	1.08
1.80	271	183.0	127.0	108.0	82.0	64.0	50.0	40.0	34.0	31.0	24.0	20.0	10.4	8.80	4.44	2.20	2.10	1.06

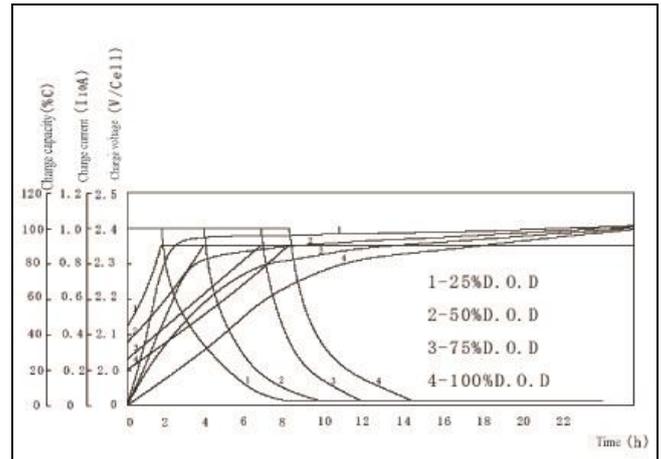
Constant Power Discharge Data (Watts per cell at 20°C/68 °F)

End Volt	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	5h	10h	20h	24h	48h	100h	120h	240h
1.60	986	739	580	487	365	274	213.6	166	130	94.20	64.40	38.00	20.40	18.30	9.72	5.00	4.40	2.34
1.65	917	711	567	481	361	272	209.8	164.8	130	94.20	64.40	37.60	20.40	18.30	9.72	5.00	4.40	2.34
1.70	839	672	548	471	356	268	209.8	163.2	130	94.20	64.40	37.60	20.40	18.30	9.72	5.00	4.40	2.34
1.75	773	623	531	453	347	262	206	161.6	130	94.20	64.40	37.20	20.40	18.30	9.72	5.00	4.40	2.34
1.80	719	568	507	425	331	252	203.2	157.8	126.8	91.80	61.00	36.20	19.84	17.60	9.72	5.00	4.40	2.34

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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