



GEL Technology
GFMJ Series

Complying standards:

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

6FMJ-100
12V100Ah(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 telecommunications, power supply system, energy storage, UPS and EPS system, etc.

Mechanical Characteristics

	SI Unit	EN Unit
Length	513mm	20.20inch
Width	163mm	6.42inch
Height	218mm	8.58inch
Total Height	228mm	8.98inch
Approx. Weight	40.0kg	88.0lbs

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

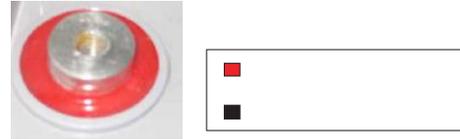
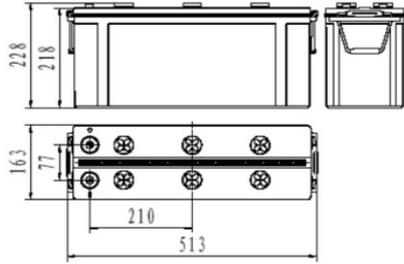
Product Characteristics

- 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 (10.0A, 10.8V) 100Ah
 - 5h rate (17.0A, 10.8V) 85.0Ah
 - 1h rate (53.8A, 10.8V) 53.8Ah
- Internal resistance:
 - 3.91mΩ when fully charged at 68°F(20°C)
- Average self-discharge rate:
 - ≤2% per month 68°F(20°C)
- Maximum discharge current:
 - 1104A(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: 20A
 - Temperature compensation: -21mV/°C/piece
 - Cycle use: 14.10V/ piece
 - Standby use: 13.44V/ piece

Dimensions/Terminal



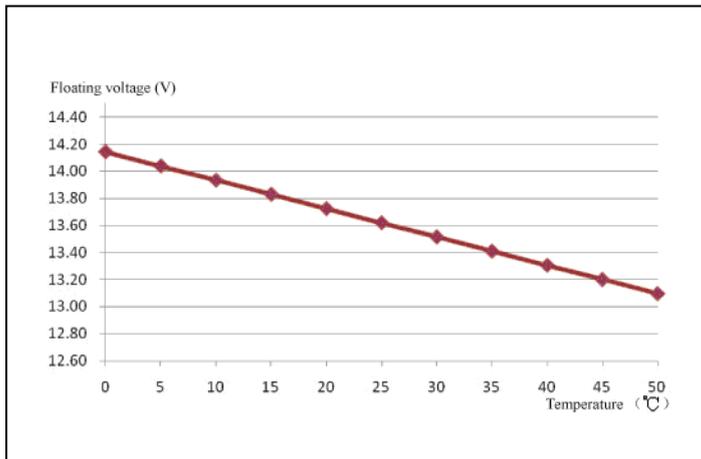
Constant Current Discharge Data (Ampere at 20°C/68 °F)

End Volt	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	100h	120h	240h
1.60	156	100.0	69.8	59.0	44.9	35.1	27.4	21.9	18.6	17.0	13.1	11.0	5.64	4.76	2.37	1.14	1.09	0.57
1.65	151	98.0	68.4	57.8	44.0	34.4	26.8	21.5	18.2	16.6	12.9	10.7	5.52	4.67	2.32	1.13	1.08	0.56
1.70	147	96.0	67.0	56.6	43.1	33.7	26.3	21.0	17.9	16.3	12.6	10.5	5.41	4.58	2.29	1.12	1.07	0.55
1.75	142	94.1	65.6	55.5	42.3	33.0	25.7	20.6	17.5	16.0	12.4	10.3	5.31	4.49	2.25	1.11	1.06	0.54
1.80	135	91.3	63.7	53.8	41.0	32.0	25.0	20.0	17.0	15.5	12.0	10.0	5.20	4.40	2.22	1.10	1.05	0.53

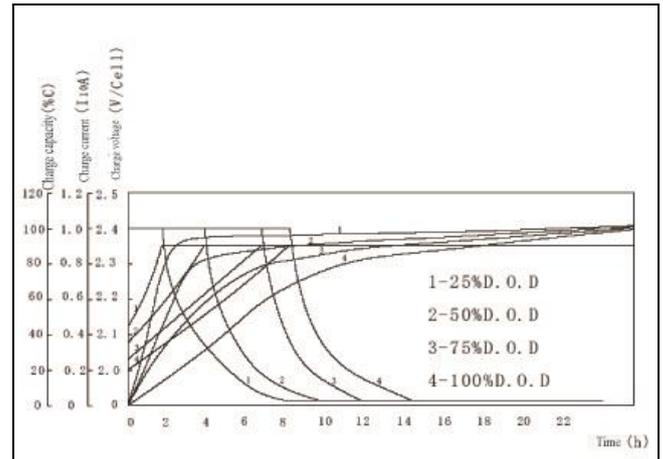
Constant Power Discharge Data (Watts per cell at 20°C/68 °F)

End Volt	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	100h	120h	240h
1.60	271	175	122	104.0	79.0	61.7	49.0	39.9	34.1	30.9	24.2	20.4	10.8	9.23	4.65	2.27	2.18	1.15
1.65	266	173	121	103.0	78.8	61.5	48.8	39.5	33.7	30.8	24.0	20.3	10.7	9.15	4.59	2.26	2.17	1.14
1.70	261	172	120	102.0	78.1	61.3	48.3	38.9	33.4	30.6	23.9	20.2	10.6	9.11	4.56	2.25	2.16	1.12
1.75	258	171	119	101.0	77.8	61.1	47.8	38.6	33.1	30.5	23.8	20.1	10.5	8.98	4.50	2.24	2.15	1.11
1.80	252	169	118	100.0	77.1	60.8	47.5	38.2	32.8	30.2	23.5	19.8	10.4	8.84	4.46	2.23	2.14	1.09

Floating Charge Voltage vs. Temperature



Cycle charge characteristic curve (at 20°C/68 °F)



Contact information

Advanced Battery Technology BV
 Add. New Yorkstraat 14 1175 RD Lijnden Amsterdam, Netherland
 Web: <http://www.abtbatt.com> Email: sales@abtbatt.com

ABT VRLA Battery: Available power range from 26Ah to 3000Ah.

Copy right ABT BV,
 all rights reserved.
 (Edition: Feb.,2021)