



GEL Technology
ABT GEL FTJ Series

Complying standards:

IEC60896-21/22:2004
DIN43539-T5
YD/T1360-2005

6FTJ-100A

12V100Ah(10hr)



ABT-FTJ series are narrow width and front terminal design with poles and gas venting collection system placed in the front of battery container, less space and more compact, convenient for installation, maintenance and inspection mostly used in telecommunication, power supply system, energy storage, UPS and EPS system, etc. This series can be specially applied to international standard footprint 23', rack or cabinet.

Mechanical Characteristics

	SI Unit	EN Unit
Length	558mm	21.97inch
Width	125mm	4.92inch
Height	230mm	9.06inch
Total Height	230mm	9.06inch
Approx. Weight	34.6kg	76.12lbs

Type of material for container and lids:

ABS Standard (FV0 Optional)

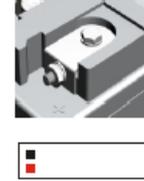
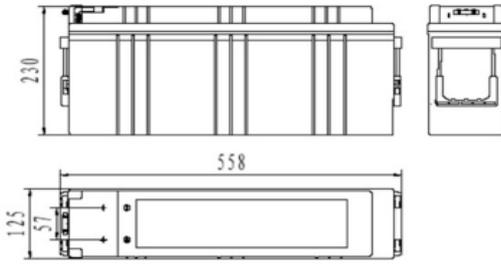
Product Characteristics

- 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
- Centralized venting system

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) 85Ah
 - 1h rate(53.1A, 10.5V) 53.1Ah
- Internal resistance:
 - 5.4mΩ when fully charged at 68°F(20°C)
- Average self-discharge rate:
 - ≤2% per month 68°F(20°C)
- Maximum discharge current:
 - 847A(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: 14.10 V/ piece
 - Standby use: 13.44 V/ piece

Dimensions/Terminal



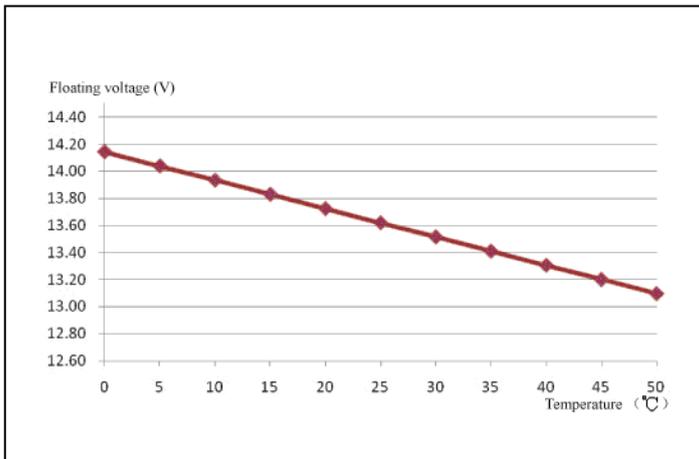
Constant Current Discharge Data (Ampere at 20°C/68 °F)

End Volt	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	5h	10h	20h
1.60	272	198	154	132	101.0	75.5	57.6	45.4	35.3	27.5	18.4	10.8	5.61
1.65	258	191	151	127	96.5	73.2	56.4	44.1	34.6	26.9	18.0	10.5	5.50
1.70	243	181	148	122	92.7	70.3	54.7	42.7	33.7	26.4	17.7	10.4	5.42
1.75	224	168	143	117	88.9	67.5	53.1	41.5	32.9	25.8	17.4	10.2	5.31
1.80	192	153	134	111	84.6	64.9	50.0	39.8	31.9	25.0	17.0	10.0	5.20

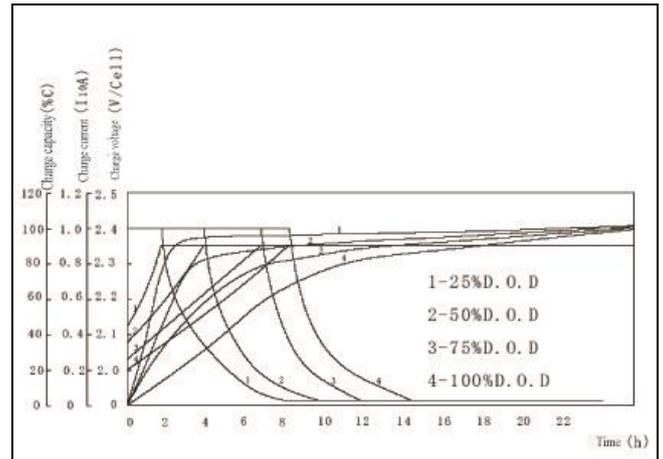
Constant Power Discharge Data (Watts per cell at 20°C/68 °F)

End Volt	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	5h	10h	20h
1.60	479	359	281	236	177	133	102	79.1	61.9	44.9	30.4	18.1	9.6
1.65	445	345	275	233	175	132	100	78.5	61.9	44.9	30.4	17.8	9.6
1.70	407	326	266	229	173	130	100	77.7	61.9	44.9	30.4	17.8	9.6
1.75	375	302	258	220	169	127	98.1	77.0	61.9	44.9	30.4	17.7	9.6
1.80	349	276	246	206	161	123	96.7	75.2	60.3	43.7	28.8	17.3	9.4

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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