



GEL Technology
ABT GEL FTJ Series

Complying standards:

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

6FTJ-100B

12V90Ah(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 19', rack or cabinet.

Mechanical Characteristics

	SI Unit	EN Unit
Length	395mm	15.55inch
Width	110mm	4.33inch
Height	288mm	11.34inch
Total Height	288mm	11.34inch
Approx. Weight	33.8kg	74.36lbs

Type of material for container and lids:

ABS Standard (FV0 Optional)

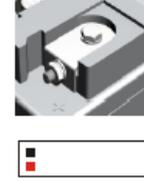
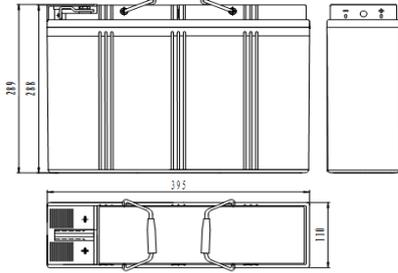
Product Characteristics

- 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 (9.0A, 10.8V) 90Ah
 - 5h rate(15.5A, 10.8V) 77.5Ah
 - 1h rate(46.0A, 10.5V) 46.0Ah
- Internal resistance:
 - 5.50mΩ 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: 18A
 - Temperature compensation:
 - 21mV/°C/piece
 - Cycle use: 14.10 V/ piece
 - Standby use: 13.44 V/ piece

Dimensions/Terminal



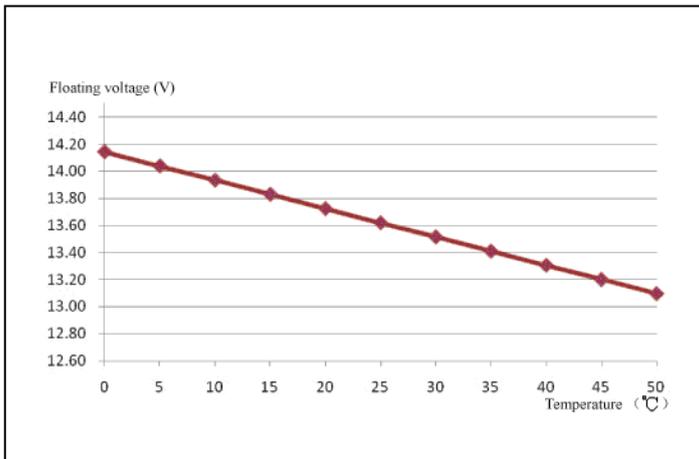
Constant Current Discharge Data (Ampere at 20°C/68 °F)

End Volt	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	5h	10h	20h
1.60	268	196	153	128	97.6	66.8	52.0	43.1	33.0	26.1	17.2	9.84	5.29
1.65	255	190	146	124	93.7	64.2	49.5	42.2	32.0	25.4	16.8	9.65	5.19
1.70	241	179	139	117	90.1	61.5	47.9	41.0	31.1	24.4	16.2	9.45	5.10
1.75	231	170	134	112	86.9	59.5	46.0	39.7	30.2	24.0	15.8	9.27	5.00
1.80	215	159	127	105	82.2	56.1	43.7	38.2	29.0	23.3	15.5	9.00	4.80

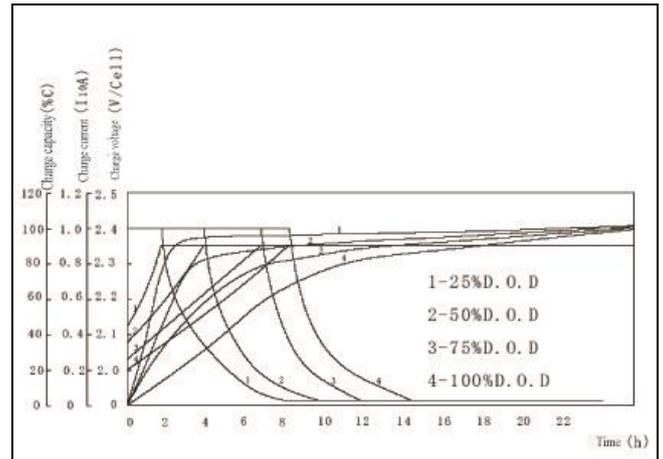
Constant Power Discharge Data (Watts per cell at 20°C/68 °F)

End Volt	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	5h	10h	20h
1.60	475.2	354.1	279.2	234.8	175.3	132.8	100.8	78.7	61.5	44.5	30.3	18	9.5
1.65	441.5	340.2	272.4	231.6	174.7	130.2	99.5	78.3	61.2	44.3	30.1	17.8	9.5
1.70	405	321.7	263.7	224.8	172.3	129	99.0	77.0	61.0	44.0	30.0	17.7	9.5
1.75	372.6	300.2	254.3	218.5	167.2	126.4	97.5	76.0	60.8	43.9	29.8	17.5	9.5
1.80	345.1	272.4	243.1	205.4	160.6	120.8	96.9	74.8	60.3	43.5	28.5	17.1	9.3

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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