

# FFT12-150

## Datasheet



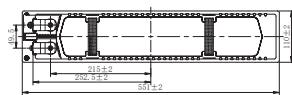
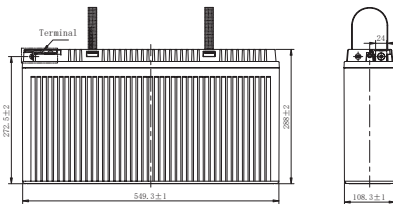
**AGM**

**NON-SPILLABLE**

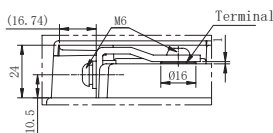
FFT batteries are a part of our FP General Purpose Series. Designed for applications that demand high levels of reliability and safety, FFT batteries offer a long service life up to 12 years. Thanks to their front terminal design, these batteries allow rapid installation and easy access for maintenance. These front terminal batteries are ideal for power cabinets 19" and 23" used by telecommunication companies.

### DIMENSIONS & WEIGHT

<b>Length</b>	551±2mm
<b>Width</b>	110±2mm
<b>Total height</b>	288±2mm
<b>Gross weight</b>	44.8kg



### TERMINAL



### SPECIFICATIONS

<b>Nominal voltage</b>	12V (6 cells)
<b>Nominal capacity</b>	150.0Ah (10hr)
<b>Design life</b>	12 years at 25°C
<b>Internal resistance</b>	Approx 4.3mΩ
<b>Terminal</b>	T6
<b>Max. discharge current</b>	1500A (5 sec)
<b>Reference capacity</b>	157.6Ah (20hr, 1.80V/cell, 25°C) 150.0Ah (10hr, 1.80V/cell, 25°C) 146.4Ah (8hr, 1.75V/cell, 25°C) 131.5Ah (5hr, 1.75V/cell, 25°C) 100.7Ah (1hr, 1.60V/cell, 25°C)

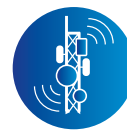
<b>Charge voltage</b>	13.5V ~ 13.8V 25°C
<b>Standby use voltage</b>	Temperature compensation: -20mV/°C/Cell
<b>Cycle use voltage</b>	14.1V ~ 14.4V 25°C
	Temperature compensation: -30mV/°C/Cell
<b>Operating temp. range</b>	Discharge: -15°C ~ 50°C Charge: -20°C ~ 40°C Storage: -15°C ~ 40°C

<b>Nominal operating temp. range</b>	25°C ± 3°C
<b>Self discharge</b>	Can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly self-discharge ratio is less than 3% at 25°C
<b>Capacity affected by temp.</b>	40°C 103% 25°C 100% 0°C 86%
<b>Container material</b>	A.B.S. UL94-HB   UL94-V0 optional

### APPROVALS

ISO9001 - Quality management system  
ISO14001 - Environmental management System  
Approved for transport by Air (IATA)  
Designed in accordance with IEC 60896-21/22

### APPLICATIONS



Telecom



UPS & data center

# FFT12-150

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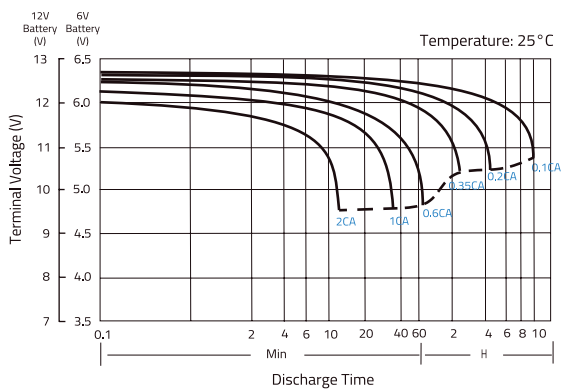
### CONSTANT CURRENT DISCHARGE (A) @25°C

F.V./Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
<b>1.85V/cell</b>	217.0	194.1	169.9	125.4	106.1	79.0	47.4	35.8	28.5	23.8	21.7	16.8	14.1	7.38
<b>1.80V/cell</b>	252.0	225.7	188.6	141.7	112.0	87.5	51.6	38.7	30.7	25.7	22.2	18.0	15.0	7.88
<b>1.75V/cell</b>	278.2	238.8	201.2	148.1	116.0	90.7	53.2	39.8	31.5	26.3	22.6	18.3	15.2	8.00
<b>1.70V/cell</b>	296.2	252.4	208.8	154.7	118.4	94.0	54.9	40.9	32.3	26.8	22.9	18.7	15.5	8.12
<b>1.67V/cell</b>	309.6	260.3	214.6	158.6	121.0	96.0	55.8	41.5	32.7	27.2	23.2	18.8	15.6	8.19
<b>1.60V/cell</b>	323.2	279.0	219.6	167.6	122.9	100.7	58.1	43.1	33.8	28.0	23.3	19.3	15.9	8.37

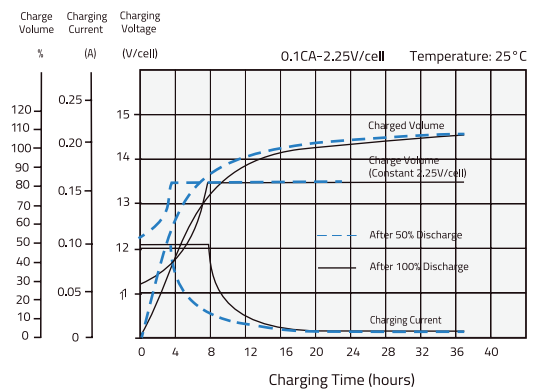
### CONSTANT POWER DISCHARGE (W/CELL) @25°C

F.V./Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
<b>1.85V/cell</b>	405.0	372.9	323.6	242.3	206.0	153.6	92.7	70.2	56.0	46.9	43.1	33.2	27.8	15.0
<b>1.80V/cell</b>	465.1	429.1	354.1	271.7	215.9	168.9	100.4	75.6	60.2	50.4	44.0	35.5	29.6	15.8
<b>1.75V/cell</b>	505.1	449.2	374.2	281.5	221.4	173.9	102.9	77.3	61.5	51.4	44.5	36.1	30.1	16.0
<b>1.70V/cell</b>	525.7	469.4	385.4	291.3	225.2	179.0	105.6	79.2	62.8	52.4	45.0	36.6	30.5	16.2
<b>1.67V/cell</b>	547.6	485.5	394.4	297.0	229.4	181.9	107.0	80.1	63.5	52.9	45.4	37.0	30.7	16.3
<b>1.60V/cell</b>	555.7	506.5	397.9	309.8	230.4	188.9	110.7	82.6	65.3	54.3	45.6	37.7	31.3	16.6

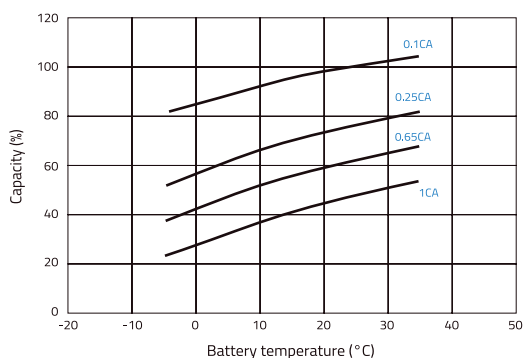
### DISCHARGE CHARACTERISTICS



### FLOAT CHARGING CHARACTERISTICS



### TEMPERATURE IN RELATION TO BATTERY CAPACITY



### TEMPERATURE ON LONG TERM FLOAT LIFE

