

AGM TECHNOLOGY  
ABT Enduro TFT Series

## TFT12-105

12V 460W(10min, 1.60Vpc)  
12V 105Ah(10hr, 1.80Vpc)



### High Performance

The ABT Enduro TFT VRLA batteries are designed for dual purposes of Telecom and UPS in floating and high rate discharge backup system with proven compliance to the most rigorous international standards.

Enduro TFT is also recognized as long service life and high performance batteries. The Enduro TFT front terminal monoblocs is compact design and standard footprint for 19" and 23" and ETST cabinet.

### Mechanical Characteristics

	SI Unit	English Unit
Length	508mm	20.0inch
Width	110mm	4.33inch
Height	238mm	9.37inch
Total Height	238mm	9.37inch
Approx. Weight	33.4Kg	73.63lbs
Type of material for Box and lids : ABS Standard (FV0 Optional)		

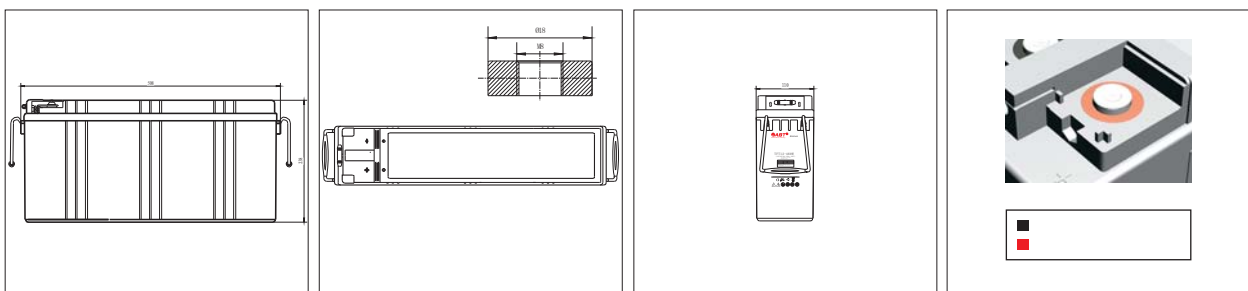
### Product Characters

- Pb-Ca-Sn alloy grids designed to resist corrosion and prolong life
- Low resistance microporous glass fibre separator
- Centralized venting system for gas ventilation
- Flame arrestor to improve safety
- Rope handles for easy installation
- Pillar with brass insert where screwed an copper connector fitted with a bolt and stainless nut and washers.
- Design life 10 years
- Low Self Discharge
- U. L. Component Recognition

### Electrical Characteristics

Nominal Voltage	12V
Number of Cell	6
Capacity	
Nominal Power 20°C (68°F)	10 min rate (1.60Vpc) 460W/cell
Nominal Capacity 20°C (68°F)	20 hour rate (5.4A, 1.80Vpc)108Ah 10 hour rate (10.5A, 1.80Vpc)105Ah 1 hour rate (67.0A,1.60Vpc) 67Ah
Intensity	
Max. Discharge Current	20°C (68°F) 650A(5s)
Short circuit current	3130A
Maximum charge current	21A(20% of rated capacity)
Internal Resistance	Fully Charged battery 20°C (68°F) 3.99mOhms
Mass Energy(Wh/kg)	37.72
Volumic Energy(Wh/L)	166.6
Self-Discharge	3% of capacity declined per month at 20°C(average)
Operating Temperature Range	Discharge -20~60°C Charge -10~60°C Storage -20~60°C
Charge Methods:	Constant Voltage Charge 20°C (68°F) Cycle use 14.4-14.7V Temperature compensation -24mV/°C Standby use 13.50-13.74V Temperature compensation -20mV/°C
Terminal Type	Inserted Thread and bolt M8X φ 18
Torque strength in Nm	12~16
Handle Type	Rope

### Dimensions / Terminal



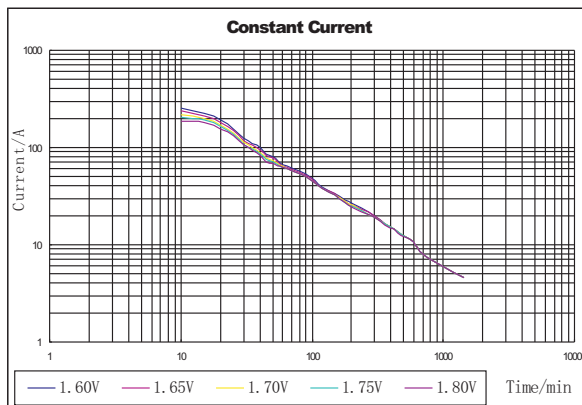
**Constant Current Discharge Data ( Amperes at 20°C / 68°F )**

End Volt. Per Cell	5min	10min	15min	20min	25min	30min	35min	40min	45min	50min	1h	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
1.60V	334	258.0	225.0	191.0	157.0	123.0	110.8	98.7	86.5	80.0	67.0	53.0	39.0	33.9	28.8	23.7	20.0	16.3	14.5	12.6	11.7	10.7	7.90	4.65
1.65V	311	240.0	210.0	179.3	148.7	118.0	106.2	94.3	82.5	76.8	65.4	52.0	38.5	33.4	28.3	23.2	19.8	16.3	14.5	12.6	11.6	10.6	7.90	4.64
1.70V	287	219.0	200.0	171.0	142.0	113.0	101.3	89.7	78.0	73.3	64.0	51.1	38.2	33.0	27.8	22.6	19.4	16.2	14.4	12.6	11.6	10.6	7.90	4.63
1.75V	249	202.0	190.0	162.7	135.3	108.0	96.9	85.7	74.6	70.6	62.6	50.3	38.0	32.7	27.5	22.2	19.2	16.2	14.4	12.5	11.6	10.6	7.90	4.62
1.80V	226	189.0	182.0	156.3	130.7	105.0	93.6	82.2	70.8	67.8	61.8	49.7	37.6	32.3	27.1	21.8	19.0	16.1	14.3	12.5	11.5	10.5	7.90	4.60

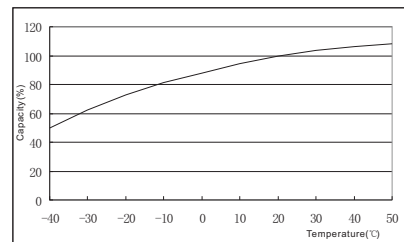
**Constant Power Discharge Data ( Watts per cell at 20°C / 68°F )**

End Volt. Per Cell	5min	10min	15min	20min	25min	30min	35min	40min	45min	50min	1h	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
1.60V	542	460.0	395.0	336.7	278.3	220.0	198.7	177.3	156.0	146.7	128.0	100.3	72.5	63.0	53.5	44.0	37.3	30.5	27.2	23.8	21.8	19.8	17.0	8.65
1.65V	522	418.0	375.0	321.7	268.3	215.0	193.7	172.3	151.0	142.0	124.0	98.0	72.0	62.5	53.1	43.6	37.1	30.5	27.1	23.7	21.8	19.8	17.0	8.64
1.70V	499	387.0	356.0	306.0	256.0	206.0	186.3	166.7	147.0	138.7	122.0	96.7	71.4	62.0	52.6	43.2	36.8	30.4	27.1	23.7	21.8	19.8	16.9	8.63
1.75V	448	361.0	337.0	290.7	244.3	198.0	179.3	160.7	142.0	134.3	119.0	95.0	71.0	61.6	52.2	42.8	36.6	30.3	27.0	23.6	21.7	19.7	16.9	8.62
1.80V	418	328.0	318.0	274.7	231.3	188.0	171.0	154.0	137.0	129.7	115.0	92.8	70.5	61.2	51.8	42.5	36.4	30.2	26.9	23.6	21.7	19.7	16.9	8.62

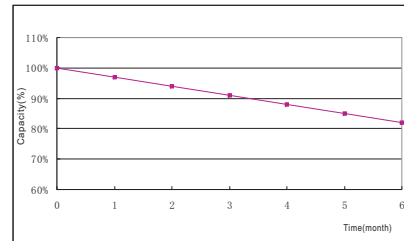
**Constant Current Discharge Curve**



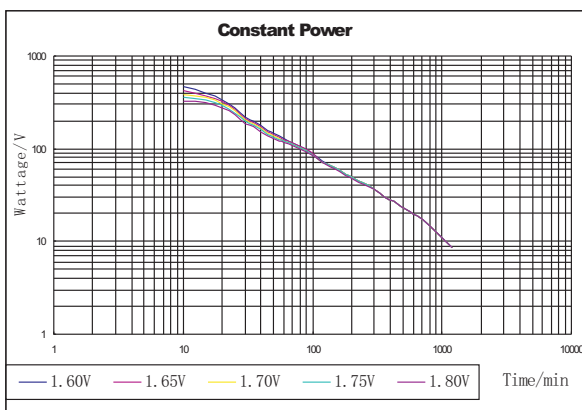
**Capacity Vs Temperature**



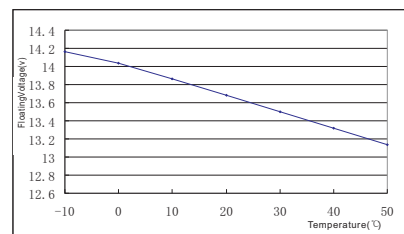
**Self Discharge**



**Constant Power Discharge Curve**



**Floating Charge Voltage Vs Temperature**



**Contact information**

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ABT VRLA Battery: Available Power Range From 7Ah to 3000Ah

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 (Edition: May, 2011)