

Complying standards:

IEC60896-21/22 2004,
JIS C8704-1/2 2006,
BS6290-41997,
JIS C8702-1/2 2003,
Eurobat Guide,
IEC 707 Fv0

AGM TECHNOLOGY
ABT Enduro TFT Series

TFT12-95

12V 380W(10min, 1.60Vpc)
12V 92Ah(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	395mm	15.55inch
Width	105mm	4.13inch
Height	270mm	10.63inch
Total Height	270mm	10.63inch
Approx. Weight	28.5Kg	62.83lbs
Type of material for Box and lids : ABS Standard (FV0 Optional)		

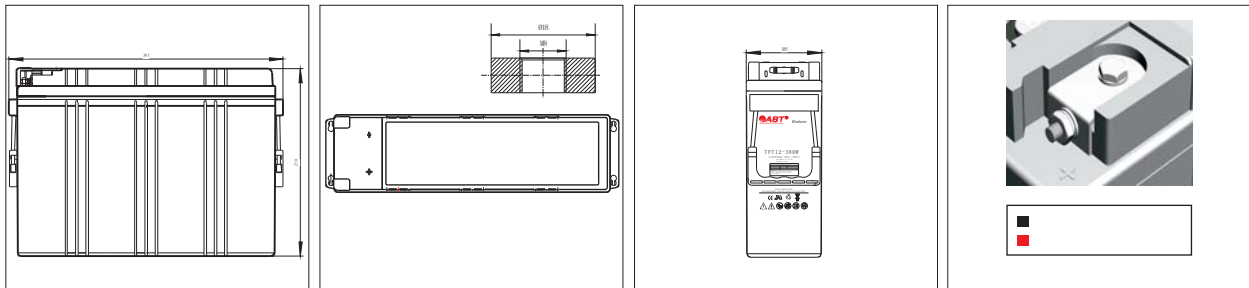
Product Characters

- 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) 380W/cell
Nominal Capacity 20°C (68°F)	20 hour rate (4.75A, 1.80Vpc)95Ah 10 hour rate (9.2A, 1.80Vpc)92Ah 1 hour rate (60.0A, 1.60Vpc) 60Ah
Intensity	
Max. Discharge Current	20°C (68°F) 650A(5s)
Short circuit current	3130A
Maximum charge current	18.4A(20% of rated capacity)
Internal Resistance	Fully Charged battery 20°C (68°F) 3.99mOhms
Mass Energy(Wh/kg)	38.74
Volumic Energy(Wh/L)	98.59
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



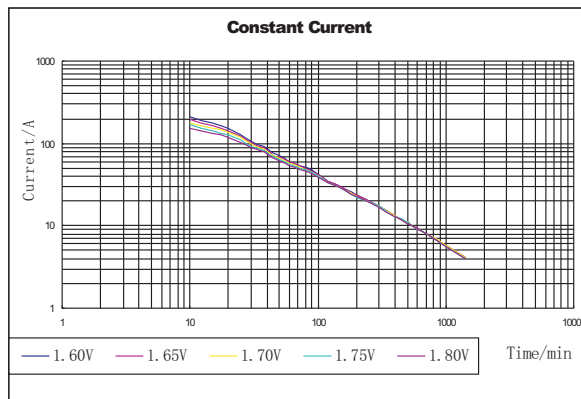
Constant Current Discharge Data (Amperes at 20°C/ 68°F)

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	294	211.0	176.0	152.3	128.7	105.0	95.3	85.7	76.0	70.7	60.0	47.6	35.1	30.3	25.5	20.7	17.6	14.4	12.8	11.2	10.3	9.30	7.95	4.05
1.65V	274	194.0	165.0	144.0	123.0	102.0	92.2	82.3	72.5	67.8	58.5	46.5	34.5	29.8	25.2	20.5	17.5	14.4	12.8	11.2	10.3	9.30	7.93	4.04
1.70V	252	178.0	154.0	135.3	116.7	98.0	88.7	79.5	70.2	65.8	57.0	45.4	33.8	29.3	24.8	20.3	17.3	14.3	12.7	11.1	10.2	9.20	7.92	4.03
1.75V	221	168.0	143.0	126.3	109.7	93.0	84.9	76.7	68.6	64.3	55.6	44.4	33.2	28.8	24.5	20.1	17.2	14.2	12.7	11.1	10.2	9.20	7.92	4.02
1.80V	199	152.0	132.0	117.7	103.3	89.0	81.7	74.3	67.0	62.7	54.2	43.5	32.8	28.5	24.3	20.0	17.1	14.1	12.6	11.0	10.1	9.20	7.90	4.02

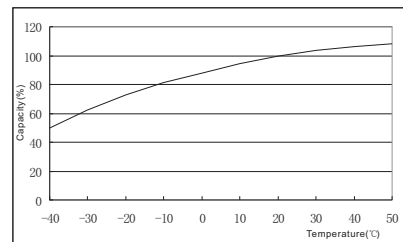
Constant Power Discharge Data (Watts per cell at 20°C/ 68°F)

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	477	380.0	320.0	277.3	234.7	192.0	175.3	158.7	142.0	132.3	113.0	89.6	66.2	57.6	49.0	40.4	34.0	27.5	24.6	21.6	19.8	18.0	15.5	7.85
1.65V	459	358.0	305.0	265.0	225.0	185.0	168.7	152.3	136.0	127.0	109.0	86.5	64.0	56.1	48.2	40.3	33.9	27.5	24.6	21.6	19.8	18.0	15.5	7.85
1.70V	438	337.0	288.0	250.7	213.3	176.0	161.3	146.7	132.0	123.7	107.0	85.0	63.0	55.4	47.7	40.1	33.8	27.5	24.6	21.6	19.8	18.0	15.4	7.85
1.75V	396	316.0	272.0	238.0	204.0	170.0	156.7	143.3	130.0	121.3	104.0	82.9	61.8	54.5	47.1	39.8	33.6	27.4	24.5	21.5	19.7	17.9	15.4	7.85
1.80V	368	294.0	255.0	224.3	193.7	163.0	150.7	138.3	126.0	117.3	100.0	80.3	60.6	53.6	46.5	39.5	33.4	27.3	24.4	21.4	19.6	17.8	15.3	7.85

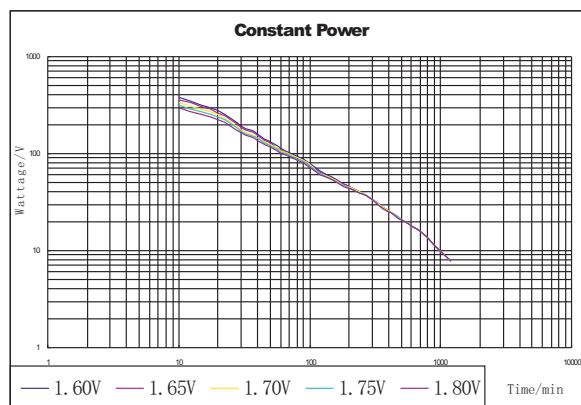
Constant Current Discharge Curve



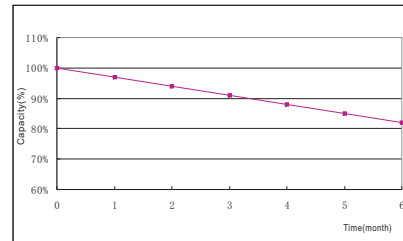
Capacity Vs Temperature



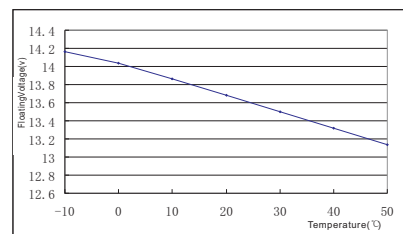
Constant Power Discharge Curve



Self Discharge



Floating Charge Voltage Vs Temperature



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

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