



AGM TECHNOLOGY  
ABT Enduro TFT Series

## TFT12-55

12V 245W(10min, 1.60Vpc)  
12V 55Ah (10hr, 1.80Vpc)

### Complying standards:

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



### 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	277mm	10.91inch
Width	105mm	4.13inch
Height	260mm	10.24inch
Total Height	260mm	10.24inch
Approx. Weight	17.7Kg	39.02lb
Type of material for Box and lids : ABS Standard (FV0 Optional)		

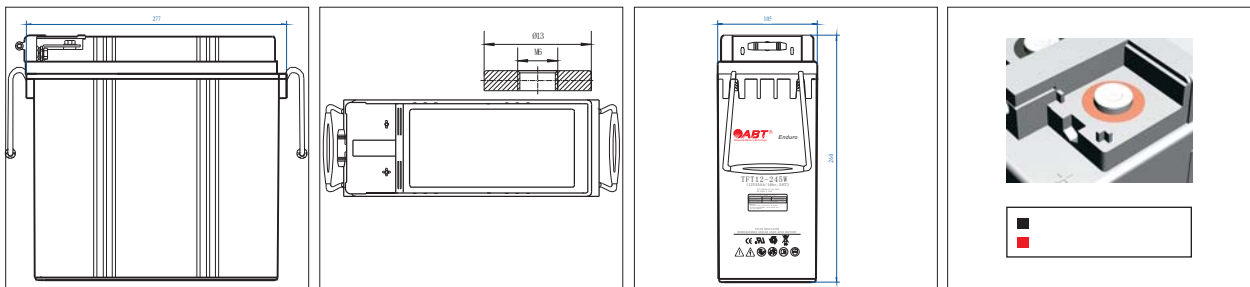
### Product Characteristics

- 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) 245W/cell
Nominal Capacity 20°C (68°F)	20 hour rate (2.9A, 1.80Vpc)58Ah 10 hour rate (5.5A, 1.80Vpc)55Ah 1 hour rate (35.5A, 1.60Vpc) 35.5Ah
Intensity	
Max. Discharge Current	20°C (68°F) 500A(5s)
Short circuit current	1400A
Maximum charge current	11A(20% of rated capacity)
Internal Resistance	Fully Charged battery 20°C (68°F) 8.93mOhms
Mass Energy(Wh/kg)	37.29
Volumic Energy(Wh/L)	87.28
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 M6X φ 13
Torque strength in Nm	12~16
Handle Type	Rope

### Dimensions / Terminal



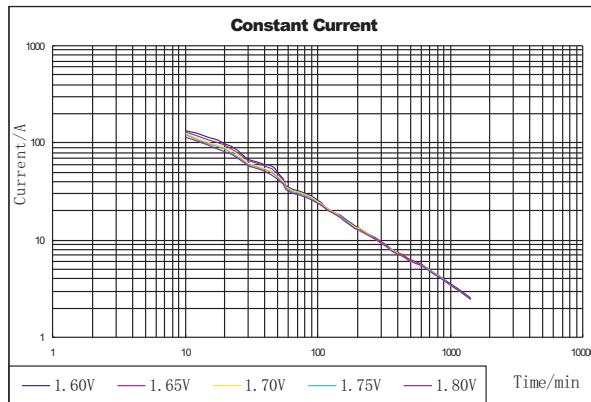
**Constant Current Discharge Data ( Amperes at 20°C/ 68°F )**

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	176	135.0	114.0	98.5	83.0	67.5	63.1	58.6	54.2	47.9	35.5	28.2	20.9	17.8	14.6	11.6	9.50	8.06	7.2	6.40	6.0	5.65	4.90	2.50
1.65V	164	130.0	108.0	93.7	79.3	65.0	60.4	55.9	51.3	45.7	34.6	27.7	20.7	17.6	14.4	11.5	9.45	8.01	7.2	6.35	6.0	5.60	4.90	2.48
1.70V	151	125.0	102.0	88.8	75.7	62.5	57.8	53.1	48.5	43.6	34.0	27.3	20.5	17.4	14.2	11.4	9.40	7.95	7.1	6.30	5.9	5.56	4.85	2.48
1.75V	132	120.0	98.0	85.3	72.7	60.0	55.5	51.0	46.6	42.1	33.2	26.8	20.3	17.2	14.0	11.3	9.36	7.80	7.0	6.20	5.9	5.53	4.85	2.45
1.80V	118	115.0	94.0	81.3	68.5	55.8	51.8	47.7	43.7	40.0	32.5	26.3	20.0	16.9	13.8	11.2	9.30	7.75	7.0	6.20	5.9	5.50	4.80	2.45

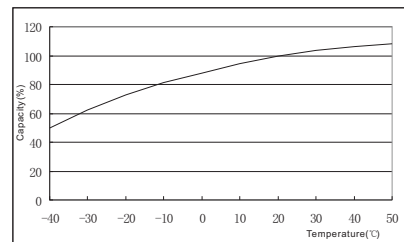
**Constant Power Discharge Data ( Watts per cell at 20°C/ 68°F )**

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	277.5	245.0	201.0	173.2	145.4	117.6	109.6	101.5	93.5	85.0	68.0	53.5	39.0	33.8	28.6	23.5	19.8	17.4	15.2	13.0	12.0	11.0	9.50	4.80
1.65V	275	238.0	196.0	168.7	141.5	114.2	106.5	98.8	91.1	82.9	66.5	52.6	38.6	33.5	28.3	22.3	19.5	17.1	15.0	12.9	12.0	11.0	9.45	4.80
1.70V	263	233.0	190.0	163.9	137.9	111.8	104.0	96.2	88.4	80.6	65.0	51.7	38.3	33.2	28.0	22.1	19.2	16.8	14.8	12.8	11.9	11.0	9.45	4.75
1.75V	237	228.0	185.0	159.8	134.6	109.4	101.6	93.8	86.0	78.5	63.5	50.7	37.8	32.8	27.8	22.0	18.8	16.5	14.6	12.7	11.8	10.9	9.40	4.75
1.80V	218	223.0	180.0	155.7	131.4	107.0	99.3	91.5	83.7	76.6	62.4	50.0	37.5	32.6	27.6	22.0	18.5	16.2	14.4	12.6	11.8	10.9	9.40	4.75

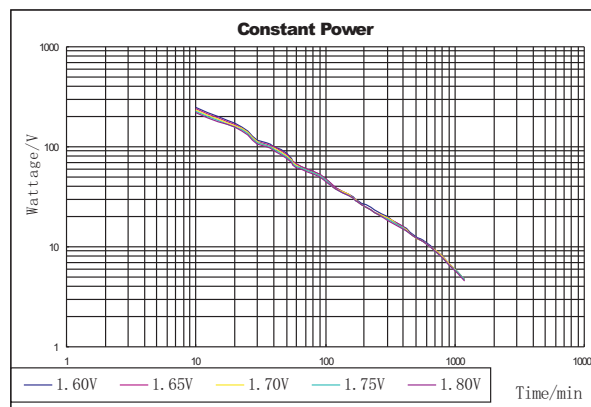
**Constant Current Discharge Curve**



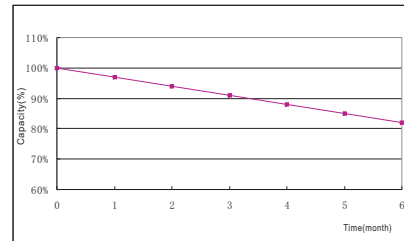
**Capacity Vs Temperature**



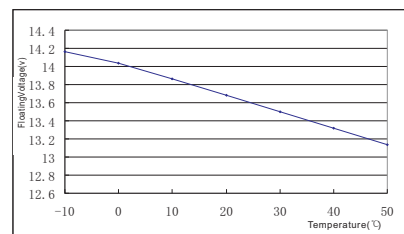
**Constant Power Discharge Curve**



**Self Discharge**



**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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