

AGM TECHNOLOGY  
ABT Enduro TFT Series

## TFT12-130

12V 535W(10min, 1.60Vpc)  
12V 130Ah(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	551mm	21.69inch
Width	110mm	4.33inch
Height	320mm	12.60inch
Total Height	320mm	12.60inch
Approx. Weight	45.8Kg	100.97lbs
Type of material for Box and lids : ABS Standard (FV0 Optional)		

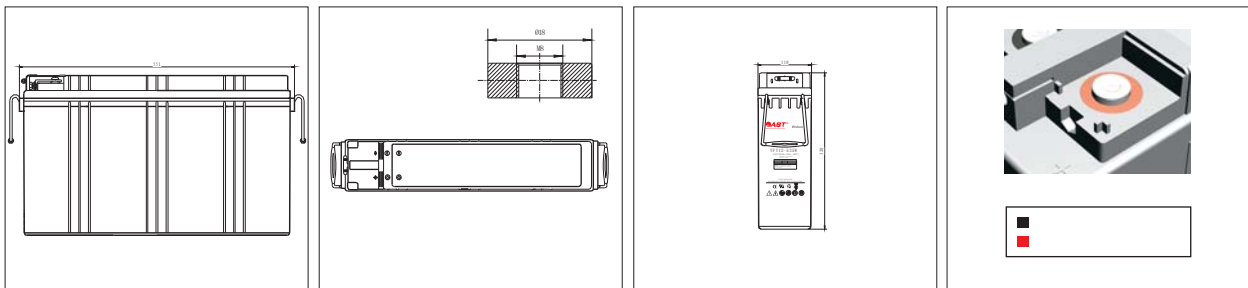
### Product Characters

- 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) 535W/cell
Nominal Capacity 20°C (68°F)	20 hour rate (6.75A, 1.80Vpc)135Ah 10 hour rate (13A, 1.80Vpc)130Ah 1 hour rate (84.8A, 1.60Vpc) 84.8Ah
Intensity	
Max. Discharge Current	20°C (68°F) 700A(5s)
Short circuit current	2800A
Maximum charge current	26A(20% of rated capacity)
Internal Resistance	Fully Charged battery 20°C (68°F)4.41mOhms
Mass Energy(Wh/kg)	98.73
Volumic Energy(Wh/L)	80.43
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



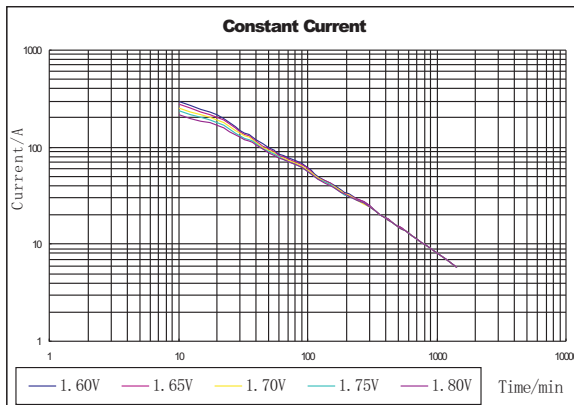
**Constant Current Discharge Data ( Amperes at 20°C / 68°F )**

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	409	298.2	248.7	215.3	181.8	148.4	134.7	121.1	1107.4	99.9	84.8	67.2	49.6	42.8	36.0	29.3	24.8	20.3	18.1	15.8	14.5	13.1	11.2	5.72
1.65V	384	274.1	233.2	203.5	173.8	144.1	130.2	116.3	102.4	95.9	82.7	65.7	48.8	42.2	35.6	29.0	24.7	20.3	18.1	15.8	14.5	13.1	11.2	5.71
1.70V	353	251.5	217.6	191.2	164.9	138.5	125.4	112.3	99.2	93.0	80.5	64.2	47.8	41.4	35.0	28.7	24.4	20.2	17.9	15.7	14.3	13.0	11.2	5.69
1.75V	307	237.4	202.1	178.5	155.0	131.4	119.9	108.4	96.9	90.8	78.6	62.7	46.9	40.7	34.6	28.4	24.2	20.1	17.9	15.5	14.3	13.0	11.2	5.68
1.80V	277	214.8	186.5	166.3	146.0	125.8	115.4	105.0	94.7	88.6	76.6	61.5	46.3	40.3	34.3	28.3	24.1	19.9	17.7	15.5	14.3	13.0	11.2	5.68

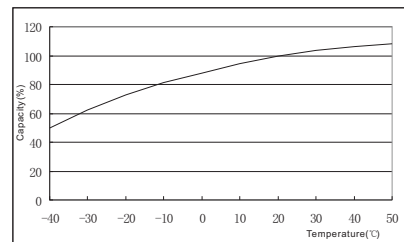
**Constant Power Discharge Data ( Watts per cell at 20°C / 68°F )**

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	664	535.0	452.2	391.9	331.6	271.3	247.8	224.2	200.7	187.0	159.7	126.6	93.5	81.4	69.2	57.1	48.0	38.9	34.7	30.5	28.0	25.4	21.9	11.1
1.65V	644.5	505.9	431.0	374.5	317.9	261.4	238.3	215.3	192.2	179.5	154.0	122.2	90.4	79.3	68.1	56.9	47.9	38.9	34.7	30.5	28.0	25.4	21.9	11.1
1.70V	615	476.2	407.0	354.2	301.4	248.7	228.0	207.2	186.5	174.7	151.2	120.1	89.0	78.2	67.4	56.7	47.8	38.9	34.7	30.5	28.0	25.4	21.8	11.1
1.75V	552	446.5	384.3	336.3	288.3	240.2	221.4	202.5	183.7	171.4	147.0	117.1	87.3	77.0	66.6	56.2	47.5	38.7	34.5	30.4	27.8	25.3	21.8	11.1
1.80V	512	415.4	360.3	317.0	273.7	230.3	212.9	195.5	178.0	165.8	141.3	113.5	85.6	75.7	65.8	55.8	47.2	38.6	34.4	30.2	27.7	25.2	21.6	11.1

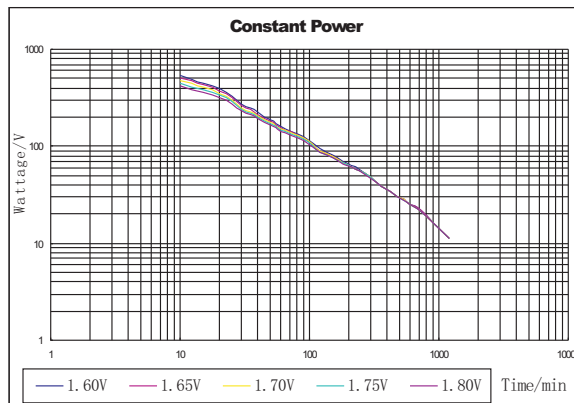
**Constant Current Discharge Curve**



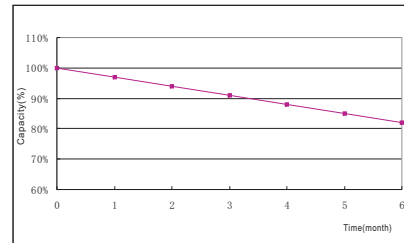
**Capacity Vs Temperature**



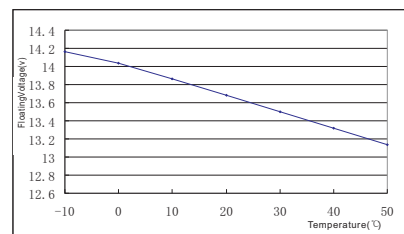
**Constant Power Discharge Curve**



**Self Discharge**



**Floating Charge Voltage Vs Temperature**



**Contact information**

Shandong Sacred Sun Power Sources Co., Ltd.  
 Add: 1, Shengyang Road, Qufu 273100 Shandong, China  
 Tel: +86-537-4438 666 extn 6028 Fax: +86-537-4411 936  
 Website: <http://www.abtbatt.com> E-mail: [sales@abtbatt.com](mailto:sales@abtbatt.com)

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

Copyright SACREDSUN,  
 All rights reserved.  
 (Edition: May, 2011)