

Complying standards:
IEC 61056-1/2-2002
JIS C8702-1/2-2009

AGM TECHNOLOGY
ABT Enduro EHP Series



EHP12-80

12V80Ah(10hr)

High Performance

The ABT Enduro EHP range of VRLA lead acid batteries have been designed specifically for use in applications which demand the highest levels of security and reliability. With proven compliance to the most rigorous international standards.

Enduro EHP is recognized as premium battery for Telecom/IT, Power Utilities applications. Enduro's reputation for long service life combined with excellent high rate performance also makes it the number one choice for high integrity, high specification UPS systems.

Mechanical Characteristics

	SI Unit	English Unit
Length	329mm	12.95inch
Width	172mm	6.77inch
Height	215.5mm	8.48inch
Total Height	223mm	8.78inch
Approx. Weight	31.0Kg	68.34lbs
Type of material for box and lids : ABS Standard (FV0 Optional)		

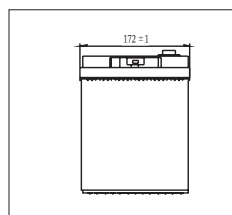
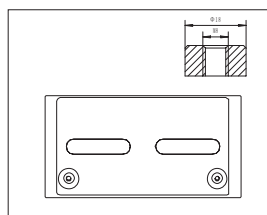
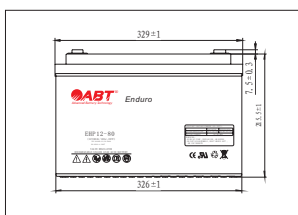
Product Characteristics

- Thick Pb-Ca-Sn alloy grids designed to resist corrosion and prolong life
- Low resistance microporous glass fibre separator
- Low specific acid density
- High integrity pillar seal
- Maintenance-Free Operation
- Low Pressure Venting System
- Low Self Discharge
- U. L. Components Recognition
- Six months shelf life at 20°C
- Design life 12+ years

Performance Characteristics

Nominal Voltage	12V
Number of Cell	6
Nominal Capacity 20°C (68°F)	10 hour rate (8.0A, 10.8V)80.0Ah 8 hour rate (9.38A, 10.5V) 75.04Ah 1 hour rate (48.8A, 10.5V)48.8Ah
Intensity	
Max. Discharge Current	20°C (68°F)880A(5s)
Short circuit current	2700A
Maximum charge current	16A(20% of rated capacity)
Internal Resistance	Fully Charged battery 20°C (68°F) 4.41mOhms
Mass Energy(Wh/kg)	30.97
Volumic Energy(Wh/L)	78.72
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 use14.04-14.28V Temperature compensation -24mV/°C/unit Standby use13.44-13.68V Temperature compensation -21mV/°C/unit
Terminal Type	Inserted Thread and bolt M8X φ 18
Torque strength in Nm	12~16
Handle Type	Incorporated
Flame arrester	Yes

Dimensions / Terminal



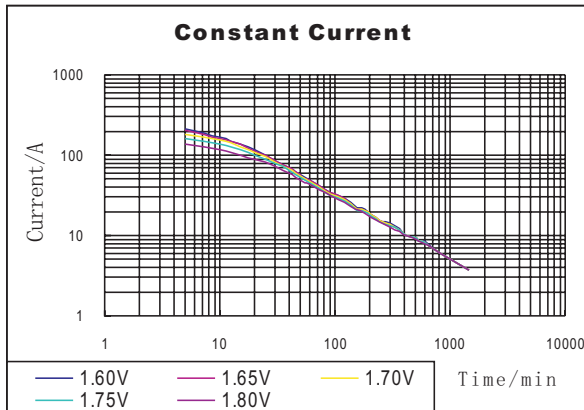
Constant Current Discharge Data (Amperes at 20°C / 68°F)

End Volt. Per Cell	5min	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	1h	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
1.60V	245.0	185.0	149.2	121.2	105.0	91.1	80.5	72.0	65.1	59.6	55.5	52.3	39.7	31.1	25.2	21.0	17.2	14.0	11.74	10.26	9.54	8.83	8.19	6.88	3.65
1.65V	224.2	172.3	140.2	114.4	100.1	87.6	77.8	69.9	63.2	58.0	54.1	51.2	39.0	30.6	24.9	20.8	17.0	13.8	11.63	10.19	9.47	8.77	8.14	6.84	3.61
1.70V	204.1	159.3	130.1	108.8	95.1	83.8	74.9	67.5	60.9	56.2	52.6	50.1	38.3	30.0	24.6	20.6	16.8	13.6	11.53	10.13	9.42	8.72	8.09	6.81	3.58
1.75V	183.5	145.2	120.8	102.3	90.1	79.6	72.2	65.0	58.8	54.0	50.9	48.8	37.5	29.5	24.2	20.4	16.6	13.4	11.41	10.07	9.38	8.66	8.06	6.78	3.54
1.80V	166.0	131.7	112.7	96.1	84.8	75.2	68.7	62.1	56.2	51.8	49.1	47.4	36.6	28.9	23.8	20.1	16.3	13.2	11.26	10.00	9.33	8.60	8.00	6.76	3.50

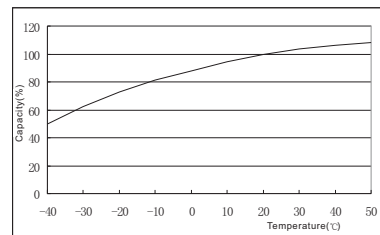
Constant Power Discharge Data (Watts per cell at 20°C / 68°F)

End Volt. Per Cell	5min	10min	15min	20min	25min	30min	35min	40min	45min	50min	55min	1h	1.5h	2h	2.5h	3h	4h	5h	6h	7h	8h	9h	10h	12h	24h
1.60V	405.7	309.9	252.2	213.3	182.2	156.9	138.8	125.9	115.6	106.1	98.3	92.2	69.1	54.1	44.6	37.3	30.9	26.1	22.35	19.53	18.22	17.02	15.90	13.27	7.12
1.65V	374.5	294.1	243.8	205.9	175.6	151.9	135.2	123.0	113.4	104.3	97.2	91.3	68.2	53.6	44.2	36.9	30.5	25.9	22.20	19.45	18.15	16.95	15.88	13.22	7.08
1.70V	346.3	280.2	234.5	197.1	169.7	147.5	131.9	120.0	110.9	102.7	95.8	90.3	67.2	53.0	43.7	36.6	30.2	25.7	22.07	19.36	18.10	16.89	15.85	13.20	7.04
1.75V	325.0	267.8	223.9	188.2	162.3	143.2	128.1	116.9	108.4	100.7	94.6	89.3	66.1	52.3	43.2	36.1	29.9	25.4	21.92	19.27	18.04	16.84	15.80	13.16	7.01
1.80V	301.2	247.6	212.5	178.5	155.8	138.0	124.1	113.8	105.7	98.7	92.9	88.2	64.8	51.6	42.6	35.7	29.6	25.2	21.80	19.20	17.98	16.80	15.76	13.12	6.97

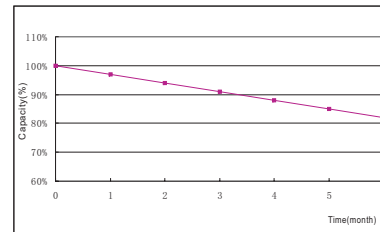
Constant Current Discharge Curve



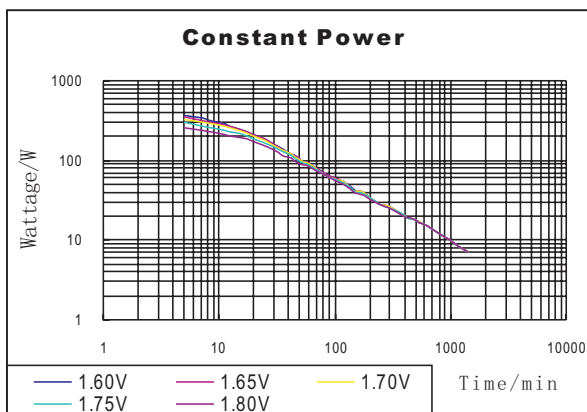
Capacity Vs Temperature



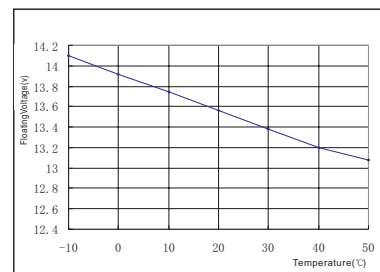
Self Discharge



Constant Power Discharge Curve



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

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

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