

AGM TECHNOLOGY  
ABT Enduro EHP Series

## EHP6-125

6V 125Ah(10hr)

### Complying standards:

IEC60896-21/22 2004  
JIS C8704-1 1999  
BS-6290:4-1997  
JIS C8702-1/2 2003  
IEC61427:1999  
BS EN 61427:2002



### 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	278mm	10.94inch
Width	178mm	7.01inch
Height	238mm	9.37inch
Total Height	258mm	10.16inch
Approx. Weight	25.5Kg	56.22lbs
Type of material for box and lids : ABS Standard (FV0 Optional)		

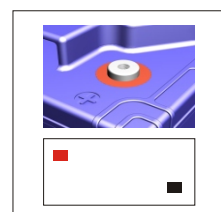
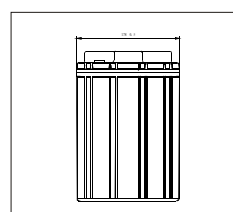
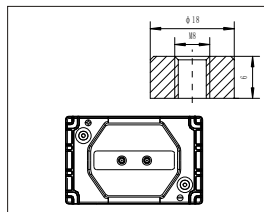
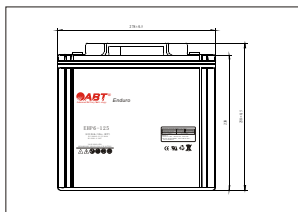
### Product Characteristics

- 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	6V
Number of Cell	3
Nominal Capacity 20°C (68°F)	10 hour rate (12.5A, 5.4V) 125Ah 8 hour rate (15.3A, 5.25V) 122.4Ah 1 hour rate (81.5A, 5.25V) 81.5Ah
Intensity	
Max. Discharge Current	20°C (68°F) 1000A(5s)
Short circuit current	2380A
Maximum charge current	25A(20% of rated capacity)
Internal Resistance	Fully Charged battery 20°C (68°F) 2.63mOhms
Mass Energy(Wh/kg)	29.41
Volumic Energy(Wh/L)	43.94
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 7.02-7.14V Temperature compensation -12mV/°C Standby use 6.72-6.84V Temperature compensation -10.5mV/°C
Terminal Type	Inserted Thread and bolt M8X φ 18
Torque strength in Nm	12~16
Handle Type	Incorporated
Flame arrester	Yes

### Dimensions / Terminal



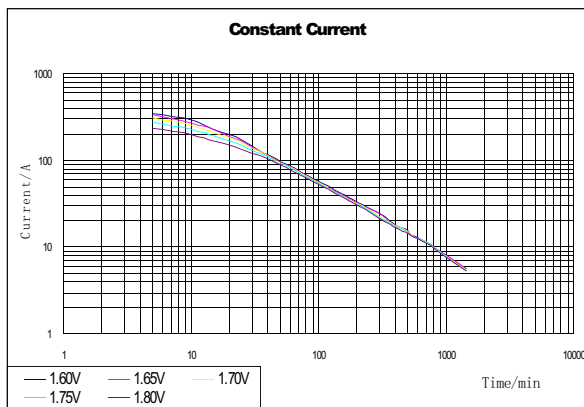
### Constant Current Discharge Data (Amperes at 20°C/68°F)

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	351.6	293.8	231.3	196.1	171.1	146.1	128.9	117.2	106.3	97.7	91.4	85.9	62.1	50.8	41.8	36.7	28.9	24.5	20.1	17.3	16.0	13.7	12.9	11.3	5.63
1.65V	339.8	273.4	225.8	189.8	166.8	143.8	127.3	114.8	103.9	95.3	89.8	85.2	60.2	48.4	41.0	35.5	28.5	24.3	19.8	17.2	15.8	13.7	12.8	11.3	5.55
1.70V	307.0	254.7	212.5	180.5	160.2	139.8	125.8	113.3	101.6	93.8	88.3	84.5	59.4	48.0	39.8	34.5	28.1	22.7	19.6	17.0	15.5	13.6	12.7	11.2	5.47
1.75V	275.0	228.1	192.2	166.4	149.2	132.0	121.1	109.4	100.0	92.2	87.5	81.5	58.6	46.7	39.1	33.8	27.3	22.3	19.4	16.8	15.3	13.5	12.7	11.2	5.39
1.80V	234.4	196.1	168.0	148.4	134.4	120.3	114.1	103.9	96.1	89.8	84.4	78.1	56.3	46.3	38.3	33.6	26.9	21.6	18.8	16.4	15.0	13.4	12.5	10.9	5.35

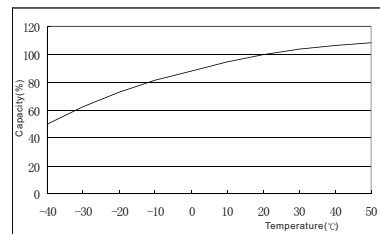
### Constant Power Discharge Data (Watts per cell at 20°C/68°F)

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	629.7	514.1	419.5	351.6	303.1	267.2	234.4	210.9	193.8	175.8	163.3	160.9	110.9	92.6	73.4	66.6	50.2	44.1	37.9	32.5	30.1	26.8	24.6	20.7	10.8
1.65V	593.8	487.5	407.8	343.8	298.4	264.1	228.1	207.0	190.6	173.4	160.9	160.2	109.4	92.0	72.7	66.3	50.2	44.0	37.7	32.5	30.0	26.7	24.6	20.5	10.7
1.70V	546.9	463.3	389.8	332.0	293.0	259.4	223.4	203.9	188.3	171.1	159.4	158.6	108.6	91.0	72.7	65.5	50.0	43.5	37.5	32.4	30.0	26.7	24.5	20.5	10.7
1.75V	500.8	421.9	357.8	311.7	281.3	247.7	218.8	200.0	183.6	168.8	157.0	154.7	107.0	89.5	71.9	64.8	49.8	42.7	37.3	32.3	29.5	26.6	24.5	20.5	10.6
1.80V	438.3	368.8	317.2	301.6	264.5	235.2	213.3	195.3	179.7	166.4	154.7	147.7	105.5	86.3	70.3	62.7	49.6	42.0	36.5	32.2	29.2	26.6	24.5	20.5	10.6

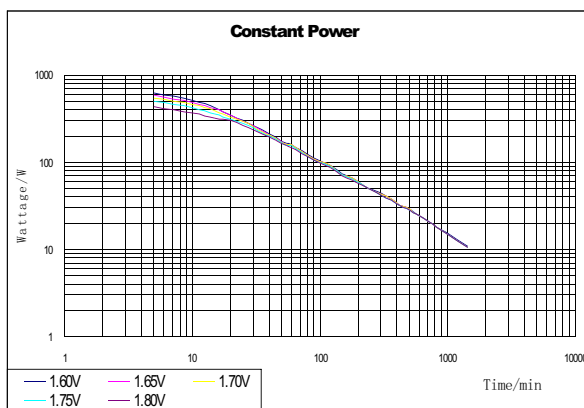
### Constant Current Discharge Curve



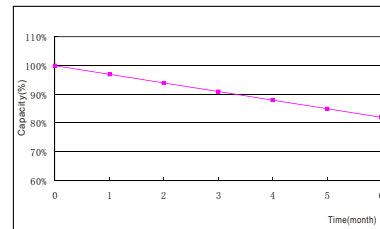
### Capacity Vs Temperature



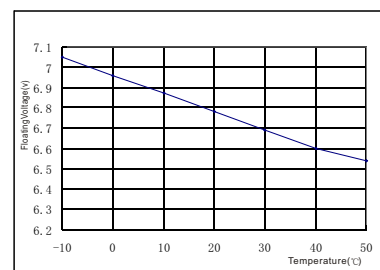
### Constant Power Discharge Curve



### Self Discharge



### Floating Charge Voltage Vs Temperature



### Contact information

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ABT VRLA Battery: Available Power Range From 1Ah to 3000Ah

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