

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

AGM TECHNOLOGY  
ABT Enduro EHP Series



## EHP12-55

12V 55Ah(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	261mm	10.28inch
Width	173mm	6.81inch
Height	220mm	8.66inch
Total Height	224mm	8.82inch
Approx. Weight	24.0Kg	52.92lbs
Type of material for box and lids : ABS Standard (FV0 Optional)		

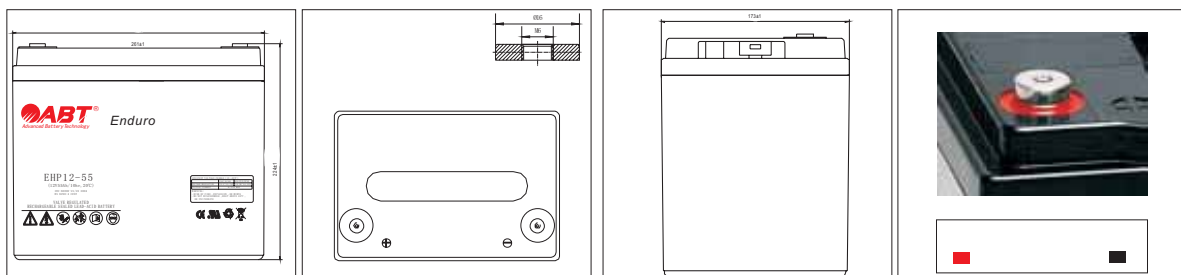
### Product Characteristics

- 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 (5.5A, 10.8V)55.0Ah 8 hour rate (6.6A, 10.5V) 52.8Ah 1 hour rate (33.6A, 10.5V)33.6Ah
Intensity	
Max. Discharge Current	20°C (68°F)660A(5s)
Short circuit current	2429A
Maximum charge current	11A(20% of rated capacity)
Internal Resistance	Fully Charged battery 20°C (68°F) 4.94mOhms
Mass Energy(Wh/kg)	27.5
Volumic Energy(Wh/L)	66.14
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 M6X φ 16
Torque strength in Nm	12~16
Handle Type	Incorporated
Flame arrester	Yes

### Dimensions / Terminal



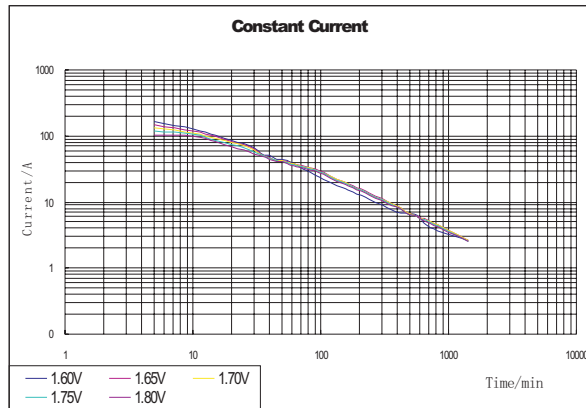
### Constant Current Discharge Data (Amperes at 20°C/68°F)

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	165.5	126.8	103.7	86.3	73.4	63.6	55.7	49.4	44.7	41.5	38.8	35.5	30.0	25.0	20.8	17.0	14.0	11.5	9.49	8.13	6.96	6.22	5.70	5.11	2.66
1.65V	150.3	120.5	99.5	83.3	70.7	61.5	54.2	48.4	43.9	40.7	38.1	34.8	29.5	24.5	20.3	16.6	13.7	11.3	9.31	7.98	6.83	6.16	5.66	5.07	2.63
1.70V	135.9	113.5	95.0	79.9	68.4	59.7	52.9	47.3	43.0	40.0	37.3	34.2	28.9	24.0	19.8	16.3	13.4	11.0	9.16	7.86	6.73	6.09	5.60	5.03	2.58
1.75V	126.1	106.3	89.6	75.9	65.7	57.5	51.3	46.1	42.2	39.1	36.6	33.6	28.3	23.5	19.4	15.8	13.1	10.8	9.00	7.73	6.60	6.02	5.55	4.99	2.53
1.80V	115.4	100.7	84.9	73.1	63.3	55.4	49.7	44.9	41.2	38.1	35.8	33.1	27.7	22.9	19.0	15.4	12.7	10.5	8.85	7.60	6.48	5.93	5.50	4.92	2.49

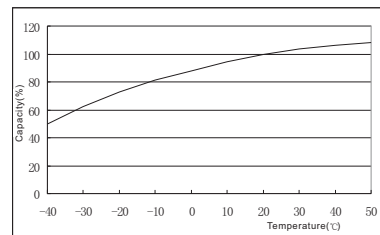
### Constant Power Discharge Data (Watts per cell at 20°C/68°F)

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	281.3	229.2	191.3	156.0	130.6	112.4	100.5	90.8	83.4	78.0	73.5	69.8	53.8	42.9	35.0	28.7	24.1	20.1	17.01	14.80	13.30	12.00	10.84	9.50	4.81
1.65V	266.3	218.7	181.2	148.3	125.1	109.5	98.1	88.9	81.8	77.2	72.8	69.2	52.8	41.9	34.1	28.1	23.6	19.8	16.83	14.64	13.19	11.89	10.76	9.44	4.76
1.70V	249.3	205.1	170.7	140.3	120.2	106.0	95.8	86.9	80.5	76.0	72.1	68.4	51.5	40.8	33.3	27.4	23.2	19.4	16.62	14.48	13.04	11.79	10.68	9.37	4.73
1.75V	232.8	193.9	161.1	133.0	115.5	102.8	93.1	85.4	79.1	74.9	71.3	67.5	49.9	39.7	32.3	26.8	22.7	19.2	16.43	14.33	12.87	11.67	10.61	9.31	4.69
1.80V	215.5	183.9	150.7	126.3	110.8	99.8	90.4	83.7	77.8	73.8	70.3	66.9	47.9	38.7	31.3	26.2	22.2	18.8	16.24	14.17	12.72	11.55	10.52	9.22	4.65

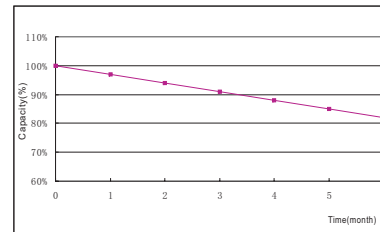
### Constant Current Discharge Curve



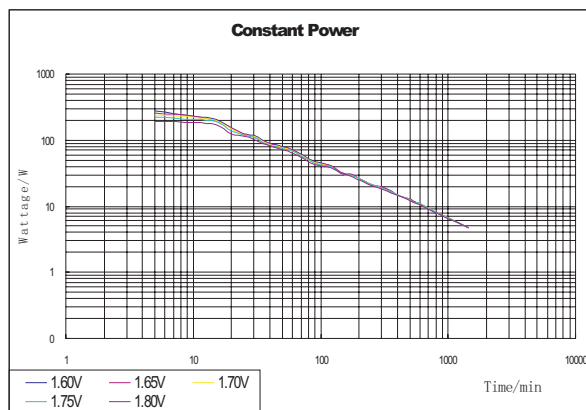
### Capacity Vs Temperature



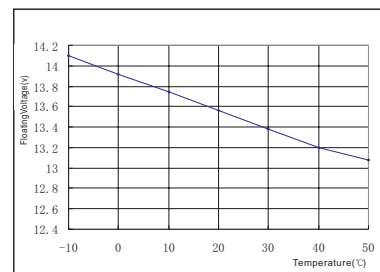
### Self Discharge



### Constant Power Discharge Curve



### 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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